

<213> Glycine max

<223> unsure at all n locations

<400> 26870

aaaaattgaa cttgaaaact tcggacatct cagcactnaa gctcgaaccc ggagagccta 60
tctagacgac cgcgaggcat ttagctttga tntacttcaa cggggaatgc agccatacta 120
ggagacatcc aaccaatca ccctcactaa taacatactg tataaatact ctaaagccct 180
aataagcata ctacatagca ctggacacaa ataaaatatt aatcctcgca tactagggtca 240
ttgcatgggtc agagatatat gacctcgacc cctacacact acaattgtcc aatatgatgc 300
gcactaacgg ctacggagac aacgcattca tcccaacaca acaccaaagc agactgggtg 360
ccggatcgac aaccgcccta ccgacgcaaa tactcattgt gtactaacca caccataacc 420
atagccgcct tttaacacac ctccaacggg gataaatacc g 461

<210> 26871

<211> 383

<212> DNA

<213> Glycine max

<400> 26871

tattattatg gtgagtgaat agcagagtat ttatcaactt ctcacgctgt ttagagaggg 60
gaaggataga aggatgaata ctgactataa gtaattgcct tctaaggaga gcacacaggt 120
agtctgaaca gctgccatgt attgtttgga cactgggata agccactctc atagaccatg 180
gaatgattag cgtcaatgat gacaacaact aactacacgg tatatatata tatagataca 240
cctacattga tacagactta tctatatgtg aagctaata tgactccgat ctgaggacta 300
aacgttatca tgagggatag aatgatgagg acatgaccga gacatgggcg acgatccact 360
tgaaagacta ggatgaccta tga 383

<210> 26872

<211> 257

<212> DNA

<213> Glycine max

<400> 26872

tttagcttgt tccccagctc ggccaggcga gctaggttgc ttctccaga agcaaccgcc 60
ttctggagga atattctaga acgtccaagt gggcctggat tctatttgca ccctattttt 120

tactaaatac acccccttgc tctctttttg gtaattcttt ttcgtaacgt tacggaactt 180
 tacacatttc gtaacaatgc ttgcattctt tccgtaatgt tatgagacct tacggatgac 240
 gtaatcatcc ctttttt 257

<210> 26873
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 26873

tgaagggaca accacatttc ctactcacat tgcctctact aacgaattct ttattcctac 60
 acttgtacag accactcctt tcacacccaa ttaacacaga tgaacttctt cctctgctac 120
 cagtatctgt gtcaaacctc ataccactg caacaaatcc attttcatgg gcaactgttc 180
 aagcccacta caaaacatca tctcgagtac cagagacctt caacgcaact ccgacatatt 240
 aatttttata caaaacatac gttcgaccaa atgactcata ctaatgaaca tgattacctg 300
 acaagtattg aaagcattcg aacaatcaaa atgtggttca ttcacaccaa attcttcttc 360
 attctcataa tctatatgaa cttcttgtga catcgctgta gaagcaagct tcatgatgat 420

<210> 26874
 <211> 264
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26874

tcagcttttt gctttctgga tgcattggct aacttggaac ccagctggc cttgaatcac 60
 aaatttgtac ctgtcacaag ggtttgcggc ttgcgctcct ctgctgacca ccatacaaac 120
 ctttgccatt ccattgcagca acctggagca atggagcaac ctgaagctaa tgctgcanat 180
 atatactata gacctctcta acctcaacat cttaatcaac cacagcagaa caattatgac 240
 ctttctctct tctgagacaa ccct 264

<210> 26875
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26875

tctacttatg tggcagggcg ggcttccttt accttncttt ctccaatgcg aactttgacc 60
 attgttcttc cttcccacaa tgcttctttt catgtctgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgagtatt tatcaggcta gttatgccgc cgttgttttt 180
 tcctaaaccc atcccgggtt caaaaccgtt ccccaacata actcggggcca tcattaccgc 240
 tgcacggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatat cttcctcgcc tgacacgatg accaagtgcc cctccactac 420

<210> 26876
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26876

tctagctttt gaagaaagtg atgaggtaca agccctaaag gcagagcttg aaagagcccg 60
 agtagtcgaa gagaagttca agtccatagc catcaaagtc tgaaaagagt atgatgaact 120
 aagggacgtc aatatggcca ccgctgaagc cttggaacga gaaaccaaga aggcccgaaa 180
 ggaagaacac gtgccagcaa agttttgagg ggctttataa ggcagcaata gtaagctcaa 240
 gctccgaaga ggtgaaagga atcatcacgg gtcaaaggca tgatcttgaa ggacgagcta 300
 aaggcttacc ttatgtcgaa nagaaatttg tcccaacagt taagcgagac tgaagggaat 360
 atgtgggccg tcatcgatga g 381

<210> 26877
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26877

tcacatgtta cctatggtgg agtatgctat cntaaaatta tttgtgttgt gatgaagtgt 60
 ttgaattgag ctatctataa tgtgatatca cattatatc gttagaaggt gaaatataat 120
 aaatcacact agaaggggggt tgaatagcgt tagtcaaaat ataaaacttt tttgaaaggg 180

aagatgttta taataaaciaa gtttataaaa ccctctccag tgactaaaag tggattgtag 240
 tccaatgatg tataaaacat attttttagt gaaaaccttg tttgcagaag gtaccaatga 300
 tggactttga aatactttta taagctaaaa aagagcaata aaaatacttc attttatact 360
 ggttcactca acccgaggta cgtcaagttc tttacaaacc agta 404

<210> 26878
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 26878

tttgcacgct agctttcatc acattgtctc atgtatTTTT ttgaccaca agagtttaac 60
 attttgcttt cacattctta tcaatgtgaa acagacacaa caagttagtt atctcgggaa 120
 acacaatttt cactgcattc atcaatgtta aatctctagc agtaacaata actcgagaga 180
 ttgcatcatg tctcataaaa atacctctaa actattcaag agcctagata acattgttta 240
 tatcttctcc tttcaaatac acaaatgcag ctaaaaatgt catcctaggt gtcacactaa 300
 caatgtcaaa ctaacgacaa ataatgaaat ttcatacata tagcatatac agattgacgt 360
 ataataattc atacctctct ctatatat 388

<210> 26879
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26879

tcaagaatta tggcctcatt ttactacctg tttcccgatg gaaatnctat aaatagacct 60
 cccatcttta atggagtggg ttatcactac tggaaaaccc gcatgcaaatt ctttatagag 120
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gctgcaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240
 gtacaatata atttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300
 tttagggttt caaattgtaa aagtgtgtaag gatatgtggg atacactaca agtaacacat 360
 gaaggcacia cagatgttaa aagatctatg ataaacactt taactcgtga atatg 415

<210> 26880
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 26880

tagcttttct gtttcccatg ctcatcataa caaagatcca caaactattg atcctttcat 60
 actagagaat caacgtttcg cacaacaat gtcattgtta tgatgtaagg cacagagtgt 120
 gatttggtt gtgcaatgtg aagtatgttg agagaaaagg agagaaccag agagagaagt 180
 tagagagagt ttagagaaag agatctttga cgtctcgtag tattgagtta tgttgctgtc 240
 cttttttgtg attacataat gtctaattat agtggctacc ttcgtagtgt tatcagtcac 300
 gtgacttatc ataagtattt gaatcaaata tcttattcta agaggtaca 349

<210> 26881
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 26881

gtgatggtgt cgagaagtat tcacatgttt gtcacatct taaaggggga gaatgtgaat 60
 gtatgtatac atgattttga tgatgtcaaa agaaaaatca aacaaagttg cttcaaaaga 120
 taagcatggc ttcaagatta atacaagatt gttcaacaa acaaagtctt gcttaaagat 180
 taactcaaga tcaagccttg ccttaaaaca aagtgtttc aagacattca aggctctggt 240
 aatcgattac caggcagtgt aatcgattac cagaagacag gggtgagaaa tagctgttga 300
 aaagggtttt ggaattgaat tttcaagatg taatcgatta ccatatgtct gtaatcgatt 360
 accagcaacg aaactcctga gattcacatt caaaagtcac gacccttc 408

<210> 26882
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 26882

tccttcaatt ctggaatcaa ttgccatttc agttgagata tagccatcat aattgatttg 60
 gaaagagagt cagcaactac attctctttt cctggcttgt actcaattgt gaaatcataa 120

ccogtcaact tatgtatcta gttctgttgc tcaagagtgt gcacaacttg attatttagt 180
gatctgaggc tcttttgatc agtcctaata gtaaatttgt gaccaagtag gtagtgtcta 240
aatttagcta tgggtgtcgt aatagcaaag aattcccttg catatgctaa tttttttttg 300
cattctcgca ttcaattttt ttgaaaaata agcaatagga tgggtgcattt ggctcataat 360
agcagctaga ccaattccag aagcatccgt ttctaagggtg aatgggtgtg aaaattatgg 420
taaagcca 428

<210> 26883
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26883

agcttgtcca gagtttgaat ccacagagga aatgcttacc acctcaaaag actggaaagc 60
ggnttctaata gactcctctg cggcctccac ataaggcata gaggatgggc agtcaccaa 120
gatgttttcc tcgcctaata cgatgaccag atgcccttct actacgaatt tcaacttttg 180
gtggagtgtg gagggaaaca ctcccactga gtggatccac ggacgccccca acagacagct 240
gtaggggggc ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggccatctctg 300
tactgggagg tcgatctctc ccctaacctc tcg 333

<210> 26884
<211> 427
<212> DNA
<213> Glycine max

<400> 26884

tctcccccaa ttttctataa atagggggag aagtgatgtg aaaaatgtgt tcagcccctt 60
aggcacttct ctctctttcg aatttgcttg gaaaaattgt ttccgtgaag aaaatttaag 120
ccgaggcgct tccgaaacgt ttccgtgagg aatttcgcaa aggtttcgac cgttcttcga 180
cgttcttaat tcgttcttca ttgttcttcg atcttcaatg ggtaagtacc tcgaactaag 240
cttttcgatt cattctatgt acccgtgggtg gtccacattg tttttcgtgt atttttattc 300
tcgtttcatt tactttttat accccctttt gacgtgctta agccatttta tttaagtcac 360
ttctcgctta aactaaaaat aaaataaatt tccaccgatc gtttgaattg tattatccgt 420

taacttc

427

<210> 26885
<211> 378
<212> DNA
<213> Glycine max

<400> 26885

agctttttga tgattcaaaa atgattcaaa ggtgttttga agataacaat gatgacaaca 60
aaagatgatg acaaaggtga tgaacaaaaa gctcaaaaga tcaaagaaca actcaagtga 120
atcaaagaac atctcaagag aatcaagaac aagtcaagag ttcaagaatc aagaagaatt 180
caagactcaa gaagaaagcc taatatcaag aatcaagatt caagattcaa gatctcaaga 240
atcaagatca agattcaaga ctcaagattc aagaatgaag aaaagactca atcaagataa 300
gtattaaaaa gttttttcaa aactttgaat agcacatgag tttttgacaa aacctttacc 360
atacatgttt tactcact 378

<210> 26886
<211> 428
<212> DNA
<213> Glycine max

<400> 26886

aggatgcttc aatggaggaa aaaagagagg gagttataga gatagggggg atctcgaaat 60
tgaaggaata aaagaggagg agaagtggaa ctttgaagta tgtctcacia gactttcatt 120
catcagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaca 180
agttttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240
agcttagcta cacacactcc tctcataact aagctcacct cttgagaag cttccttaag 300
aagattccta aagaaattag agcttagcta cacatacctc tctaatagct aagctcacct 360
ccttgagatg agaagttaga gcttagctat acaccccta taatagccaa gctcaccccc 420
atgacaaa 428

<210> 26887
<211> 376
<212> DNA
<213> Glycine max

<400> 26887

agcttgtatt gatttggctt gatgagggat cgaggcttag taatttaggc tacaacatat 60
aacacatgag aaattgatta gagaaatata ttgagacaca caatttcgtg ctccttctct 120
ccctctccct ccactcatct tctccttctt tcaagctctt atccatggct tcctatggtg 180
gtgagcttct tcttgactca tcttctgctt gaagtggcat ctccaatcat atttctttct 240
tctgtattcc actgccatta aactaccaga agccaaagac tccattgatg aaaaagatcc 300
aggcctacaa gctccacatg gaagttacat catgctggat caagagcatc ttcggctaag 360
tgatggtctt ttgctt 376

<210> 26888

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26888

tgtaggatta tggggcaccc atcacatgtg gtactatgtg gcagtctttc gatggtgcac 60
aacaagtttt ccacatcttc aaatcgcgca taaatccacc atccctgtc gccacctcc 120
aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca ccgggtcccc 180
atcaatcttc ccaagcttcc ccaacatcca agtaaaacaa cattcaaaaa gcacaaacta 240
tcacagccaa gaaaatagag caaaggcaga aaactctgcc aaaacaccaa ccgaaatcac 300
agcttttctc acttaaagac ccagtaaca attccttcga tccaattcgt taaccgttgg 360
atcgactcca aaattttact ggaagtctct attacataag cctacattnt gaccgttggg 420
atctactagc a 431

<210> 26889

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26889

agcttttaac gtatattgag aaaggatttt ctactttaaa gaaaatagtg atttgtggga 60
tcttttagtt aaggatgtg acttttttta caaaactgat atcaaataaa aaattatata 120

agtttttcta aaaatggtaa taaaaaatta aaaactataa aattttaaag gataaagtga 180
 ttgctcatta aagaatttgg tctagacagc agaatgacat gattgctcat taaagaattt 240
 ggaaacagaa atatcattcc ttccccttag aatttttaaat ttatcattaa aaaataaata 300
 aagatagact cttggaataa agtaattntt tcagataaaa aaattactaa tgactntaca 360
 agaatttaac caactactaa tatgaaattc t 391

<210> 26890
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26890

tgttaaatta gatagattcg atggtaacat gctgcttatt aaattttctc ttctcattca 60
 gtgagttttc agtgttcatc taacatttaa gaaaaagtga ggggcacaat ttctttaaca 120
 tatacttatt cctacataaa tagaattaga aaatcataag ggatcaccat ttattattta 180
 acgtcaaaat ttgaactaac acttatgtaa ttaacgaaat actcaaattc ataaatccaa 240
 aaaaaaatag attattatgt taaattaaaa ataaatataa aagaaaaccc agtgtataca 300
 aaaaatatat tggttatgat gattaataaaa tatgctgcta tattctttnt aacagacaaa 360
 ataagatttg taataatcac aagaaattat gataaaagcg ggacagtaga gagtacagca 420
 t 421

<210> 26891
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26891

ggcaattcag ctcggaccog agatcctttt agtcgacctg aggcattctg ctttgtcttg 60
 aaccaaagaa acaacacatt tctatnttgt gaggatgaaa aacatactga aaattttgca 120
 aggataaatt ccaaacattt tgatatttat aagaacaaaa aatatatttt agccttgttt 180
 ttattgttaa aaaaaaaga gaaatgctac taacatactc tttaacacac tccttcatac 240
 acactttctc ttatgtgtta aaatgtattt agctgaagaa caagttccac aaaatcttga 300

acctaccaag tgtga

315

<210> 26892
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26892

ntgccccttg ctctgtgcctt tagccatcat cttactttta tgggnaattc tgaaaccac 60
cataggtata cattcttgtc tccaactatt gtagtctatt gataacataa aacgacaaaa 120
cgtatggact ttattcggct gatcactagg cagcactact ccattatcta tccatctgaa 180
gccgaaccta tgactactaa cggcatagat ggaaccctat acttattgaa tatattataa 240
ccctagtatg atagtctcga acaagttatg ttgatgcagc ggatcgtaaa tgacgaaata 300
tggttcttgc tgcaagatct tgagacgata tgatgaacca cct 343

<210> 26893
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26893

tctagctnct gcttcttacc aagaagagag tgatcaggag gattcgattg aaatagatga 60
agatgatgat cttagtctat ttgtgaaaag attcaacaaa ttcctaagag tcaggggaaa 120
tcaaattgaga ccaaactttg aacaaaaaag acaggcaaaa gattcatcct ctactccaaa 180
atgggatgaa tgccaccaac ctgaacatct gagggttgat tgcccgatct tcaagaaaag 240
aatggagaaa tctgaaaag 259

<210> 26894
<211> 411
<212> DNA
<213> Glycine max

<400> 26894

tattaattta tataattaga ataagaatat ttacatatt tacattaaat ttacataatt 60
tgtatacttt acatattaat tgattgatat aattatattg atttatataa ttagaagaaa 120

aataatttgt atattaaaaat caatttaaaa aataatatat gaatataatt aatatattaa 180
 tttattgaac ttaattataa attaataaaa ttaaaataaa atatgcaaac tatttttaaaa 240
 aatataaaaat aaaattaaaa atattttttat aattgttaac tattgatata taccaaataa 300
 tgtttacaat attgactaga catgaaaaat attttaataa attattactt tttcaataaa 360
 aggtcaatta atagtgatga aagaataaaa attatttatt ctagaaaata g 411

<210> 26895
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26895

agctttttgt ggacatttct gcccttctat catatttgta tttctttgta ttgtggaata 60
 actttcacgt gcatgtgctt aaagtaattg gttatgtctc agtgaattga aacattcaga 120
 gtaatacata tattgtcctt ctatatactt atatggctat ttgcttccac tgggatgttt 180
 tgcagttttc ttattttttc ttggatctcc ttgatttga tgaggaggct ggcatgatcc 240
 agaagtcaac taaccaaact gatcaaatg agaatgctga ggaacaagct aatgatgagt 300
 caactaacca aactcttatg ccangtaaat acaatggaaa tattattatt attataatat 360
 ttt 363

<210> 26896
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26896

gcttcgagaa ggatgaggta caagcccttt ggcagatctt gaaagagcct gngtagtcga 60
 agagaagttc aagtccatag ccatcaaagt ctgaaaagag tatgatgaac taagggatgt 120
 caatatggcc accgatgaag ccttggaatg agaaaccaag aaggcccgaa aggaagaaca 180
 cgaccaaaga aaagttttga ggggctttat agggcagcaa tagtgagctc aagctccgaa 240
 gaggtgaaag gaatcatcac gggtaaagg catgatcttg aaggacgagc taaagggttg 300
 ccttangtcg aaaagaaatt tgtccaaca gttaagcgag actgaaggga atatgtgggc 360

catcatcgat aagtgcaaag agaagctaaa tctagcggcg actcacgagc aaag 414

<210> 26897
<211> 334
<212> DNA
<213> Glycine max

<400> 26897

agcttttgtc cctgagaaac tggttcccag aagacaacag ggagtgaaga ttgctgaaaa 60
ccctagcctt gcaacaagtt ctagggaagt agacaaggag atggacaaga aaatccgcag 120
tatcgtgagt agcattttga aagacgcctc tgttcctgat gctggtgaag atgttccaac 180
atcttccacc ccgaatgttt ctgtgccgga tgttgagaaa gatgttccaa catcttccgg 240
gccaaatgct gaagtactct cttccccag caaagagaga tcaacagagg aagatgatca 300
agcgacaaag gagaccctg caccaagggc acca 334

<210> 26898
<211> 417
<212> DNA
<213> Glycine max

<400> 26898

tcaacatcag accacttcca ggggtgctggt actacttttc tggacttgat ggggcctatg 60
caagttgaaa gccttgagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120
tttacctggg tcaactttat cagagagaaa tcagacacct ttgaatattc aaagagttga 180
gtctaagact tcaaagagaa aaagactgtg tcatcaagag aattaggagt gaccatggca 240
gagagtttga aaacagcaag tttactgaat tctgcacatc tgaaggcatt actcatgagt 300
tctctgcagc catcacacca caacaaaatg gcatagttga aaggaaaaat aggactttgc 360
aagaagctgc tagggtcatg cttcatgcc aagaacttcc ctataatctc tgggctg 417

<210> 26899
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26899

tcaagcttgt ttctacaaat cactgctttg tgcaaggtct ggggagttca ctctgattcc 60
 ttgacccatg agagattgag ccccgccatt gatttggcgt atgttaaaaa gaattgctgg 120
 aaccttgatg acccctcggg cacctttccg ggagcccga aagctagggg caaaggatcc 180
 aaggcatcat cttcttcttc tactctacct ccctcttcat ccattcagac tccatctatt 240
 cctcttgac ctacttagac accatttcca gctcttcat atgtaggaca ttcaaatatt 300
 tcatttacac cacagatact gcactccatg ctccagagct tataccggng gtagtccatc 360
 atcatgt 367

<210> 26900
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 26900

tgcctgtccg atgcagcaag agtgatgggt ctagttatct tggggaacgg atgccaaccc 60
 ggaatgggtt taggcataga caacggtgac ataactatcc tgatatatgc caaaggaaat 120
 ctgtgggaag tatggattat gctatatagc ccactcatgc atatgtatag agaagcatca 180
 cggaaggaa tggcggtggt caaagctcgc ggttgagaca agatagtga ggaagcccg 240
 cataccgcat atgttgaagc tatataagcg cgggtctggg a 281

<210> 26901
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 26901

cagctcgtac ccgggaccc ctgagtcacc ttttgcattg tagcttctaa tcatgtaagg 60
 cagaaaaaca cacataatta accacaacaa acccaacaaa tgaacaagaa ttgaagtga 120
 taaccaatt ggtgtagttc aattggcaac acatagttga gtttgtgggg gaggacctgg 180
 attccatccc cacagaatac attctcgggg aggggcaaag agctttaaat gtgacta 237

<210> 26902
 <211> 413
 <212> DNA
 <213> Glycine max

agcttgatcat caatgcttaa ccaccatgga tagaatcgaa aaagcttaat gatttttttt 60
 taatatatag taggggttct tgaccatatt gaaccccgga gacaacaatt gcttcaaaga 120
 cagagacaag gaagagggtg ctggacaaca ggatcaacaa atgacctata gtaggggttct 180
 tgacttagat cgaacctgag gacaacgata ttaaccaaca gaccacacaa caaatgaata 240
 aaaggacaag agacaatgga gctgcacaac 270

<210> 26908
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 26908

taagctcttt caactgcaca aggtctcttaa tatttgaata gtatccttgt ggaaccttca 60
 cccgacgaag aactaaca aaacttatct tctccttctt ggacaaagta tggcaggctg 120
 ggggcaagta aattttcttc ccatcagacc ttgtatgcaa ctgtgatcgt ataccatat 180
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240
 tcccaatgac tctatcacag acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc acaccaatac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
 tttgactttt atccttcttt tgggtcttcc caaatacagt attcagggtg tcaacccgct 420
 aatatacct 429

<210> 26909
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26909

agcttgtaa agaacttaga ataaataaag aacaagcttg ttgcacatc gttcgtgtgt 60
 atgatatcca ctccacaagg tttgaagtaa aggaaacctt caaccctata acgcaacgtg 120
 gcagacaaaa gtgggcagtt aacttgaatg gtcattcattg tcaatgcgga aggtattctg 180
 cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240
 accaatatat agatgttgtt tacacaaatg agcacatctt anaagcttac tccgcacaat 300

ggtggcctct tgggaatgga gcggttattc ctcttctga tgacgcatgg acatttatcc 360
ctgacccaac tacaattcgt 380

<210> 26910
<211> 420
<212> DNA
<213> Glycine max

<400> 26910

atttcttctt ctctttcctc gatgggagaa attagtttct ccttatgctc ttcttgaaat 60
ctcttacttt tatccatgtt gatcccacct aaatcaaact ctctctcttt ggatagtcct 120
aataagtttag atcaaacatt ttcttggttag taacttagaa tccttagcaa taaaacatat 180
tcaaagaaca catggtcatt gctaaatagg tgcattgtta gattaaaatt tagtagtact 240
tttgttcttc caaactttta ttcaaata gactatgtct atagcgataa gtaagagttg 300
agttattcgt caatatttga acttgacttg atcaattaaa cttgtttgtt taattaaatt 360
aataaaattt aagtttaact tgagtttgat tatttcaaca agtttaaatt taagttttac 420

<210> 26911
<211> 304
<212> DNA
<213> Glycine max

<400> 26911

agtgcctttac tcggtatggc tcatttttca ttaaaaggtc aaacttaaga cttgatgtat 60
aggatttttc tagatgttcc atggttgaca tggactgtta tgatggattt gatattcggg 120
gggaatttca tagccaagtg gcaggtggac actatagcac ctaaacattt aaagacagac 180
ggtcgagaag tatgtttag gtggtgtgag catccatttt catatatcaa attttcagac 240
ttttctattg tggtcctca tggacaaact taatgtataa tcatatgcat cccttggttc 300
ccac 304

<210> 26912
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26912

tgaagtgaaa gaaaaggag catggattag aacgtagatt cagatctaag acgcaaaaaca 60
gagcaaggaa gtcaaaaatc tcagctttca agaggatttt aggttttagga gtaatttata 120
ggttcgtaga ggtggaggag acatccccac cactatgtaa tatgttattt tcttcttaaa 180
gtataaaaaa gcaagcctac aaatcaatga atttttttat tttatttttg tacatgtcat 240
tttggtgatt ttttttaggg attatatgta ttcttgattg aagggtttttt attttttaat 300
ttaatgttgt ggtaaggat ttatgatata ttcacttttag tttagtaatg ctaataaatt 360
attaatatat agtcacatta aattcaatta cgataactta aaattcgtn taaattcaat 420
actaataag 429

<210> 26913
<211> 394
<212> DNA
<213> Glycine max

<400> 26913
agcttgtctt catttggtat tttattcacc cagtcttggtg gctctacaca aggggtgctg 60
caaccttcta aaatagtatc tccttcatcc tattaaaatc aaaatgacaa tgttaaattgc 120
tattcgtaaa aagatccctc caacccaaac aagggataaa cagagaagga aggtaaattgc 180
gagaagaaaa gaatgtagta attgtgaaaa caacaaatta agtaccaatg aagtgatgtc 240
aggccttggtg tagggagtag gacaactaga agccaaatca gcaaattctca actatagatt 300
cctatccatg tacattcttt aaaaaaatt catggttagt ggggctctac taaatgttgt 360
catgacaaga gtatattcat tagacatcaa aatg 394

<210> 26914
<211> 409
<212> DNA
<213> Glycine max

<400> 26914
gcaatttcct cgtttgggag aggcaatgct tttcgttcac attctaagtt tctatcatca 60
tcctgtgatt aagatttcaa atatatatga atgtaagaaa gtgctgtaca aatttaataa 120
cttaattaag agtaacaaat caaacaaaaa aaaaacagta agacaaaaat agcgcaaaac 180
tgatttgagg agcatattga agattaaaat gctgggtgtaa atgggttgctt acaattttca 240

ttaatctgca tgtgatgaat attcatgttc atgacgaact caactatatt ctccagttac 300
 gtacttgata caacactggt atctttgtta caagaacatt aaacttttat taacatggaa 360
 tatacttttt tcaaagaaat caaagtagtt tttaggtgtg taccceaaa 409

<210> 26915
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 26915

acaatctcac ccagaccac accttcatca cctgccttat ctctctcaac agaaaatata 60
 gatctttcag actctaaaaa cgagacatta ttactgaaa ttaaaccggt ttgtggacca 120
 cgcttctttg gactagcaat ctccccagg actgcacctt aatcaacagc gttcaagaca 180
 gaccctgaat ctgcgacact actgattccc at 212

<210> 26916
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26916

ntntgactcc tgagtatttg gaacttgctt tatctctttt tottttagcat catcaaaata 60
 atcttggaag tcattgcttc cacaaaatga ccaagaagtg gcctatgctt ctagacaact 120
 caagactcat gagaggaatt atcccactca tgacctggag ttagctgttg tagtttttgc 180
 ccttaagatg tggaggcatt acctgttttg ctccaagatt gaggtgttta gtgatcataa 240
 gagccttaag tacttgttta gtcagaaaga gttgaacatg cgtcaaagga gatgggttga 300
 gtttcttaaa gattatgatt ttgagcttag ctgccatccc ggcaaagcca atgtagtggc 360
 tgatgccttg agtaggaaat ctctacatat atctgccttg atgattagag agatggatct 420

<210> 26917
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 26917

tctagcttta ctatgcaaag aatatccaag gaaaattcct tcatctgact tagcatcaaa 60
 ctttcctaag ttttcttttc cattgtttta taaaaaacac ttgcaaccaa aaacatgaag 120
 atgcgagatg tttgggtttcc taccattgaa tagttcatat gaagttttct ttaaaatggg 180
 tcttattaaa gccctattca tgatatagca tgcagtatta atggcttcag cccaaaaata 240
 ttttggaaga ggagtatcat ttaat 265

<210> 26918
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26918

tgccaagct aagattaaga tttgggtttt tactgnggat aaaatggata ctgccatcaa 60
 tattgggtat aatattgtga ttatgcattt tttatattgg catctgcgtg ataattactt 120
 atcaagttgt ttgaatatgc agtttctctt gtcgcttgct tagacaagga atgaaacaga 180
 ttataattca tttggagatt ccagatatcc aagcattaga aaagggttga gacaagatgg 240
 ctattgcaa ggtaaaataa atttcagcct ttaatctagg ttttcttttag aaagatgtag 300
 tttgcatatc gaggattcta tataattaca gtggacatat taacaaattg gttttcttaa 360
 aatatttcaa aatcctcata agatcttcat acattagaat ntagagaaag aatgaacaca 420

<210> 26919
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 26919

tctagctttt ttttaattcag gataaacagg cagttgtaac gacatgaaag gtatgagacc 60
 taagttctga aatgcttgaa tgcaatcaaa actttcagca gaaaagaatt ccatatctat 120
 gaatttatgg tcgatgatgg agcgagatga gaaaaggctt gagtaccgat tctgctgttc 180
 ctaggaagat aacagtttgg aagaggataa tgacggtgga attggtgttg tggatgcgct 240
 ggtggttccg gaacgatgag ctcttgaagc cgaatcgat gcggatgaac ctttatg 297

<210> 26920
 <211> 371

<212> DNA
<213> Glycine max

<400> 26920

gcttaaaggt gcgaaccac catatccatt tataacattg tgaacgcgtc tactatcatt 60
gagataatct ctttctctga tgggtggggac gctacttgag ctgacaagtc tctccatctt 120
tgggcatatg ctttgaaaga tccatgccct actatagcac atgttttgta attgcatcct 180
atccgaacgc attatactga cactgcctaa ctaaggcaac cactatgtcc ttccaataat 240
ggactcggaa gggttacaag taagggtacc aggaaacagc taccocagta agactatctt 300
ggaaggaatg tatcagtaac ttcctcatcc ttgacctatg actccatctt ccgataatac 360
atcttttagat g 371

<210> 26921
<211> 248
<212> DNA
<213> Glycine max

<400> 26921

ctcgaccogg gatccttaag cgacctgcag cattctgctt tttaaattatt ttctaaggta 60
gagtgcagtg ccccaactgt tagcctctcg taaagcacta ataaattctt gatcactgcc 120
tataaatcct ttgcaaagc atgttttctt aaaagtatca tacaccacga tatcaacggt 180
tctaattgtct atgaaagact gtggaccttt atcagacgaa agcatcattc tgaagaaaaa 240
cgattctg 248

<210> 26922
<211> 421
<212> DNA
<213> Glycine max

<400> 26922

agcattctgc tattgaagaa ataaatttta tatgcaatga taaaataatg aaaacaaatt 60
cagcaaaatc atgtttggct gcaaaaagta aaaacaaaaa gaagttaat ccacatgtgt 120
tgaagcaaag gaactacata agatttataa aagatattcg catattcaag tgtcgtttgt 180
gatatttcta cacacagata taaaggaaca attacaaata tttgttatgt tccatgcttc 240
aatatttgat tagatacata atagtatcaa tcggtagagt ttaagcttga actacctca 300

caatacaatt tcaaagaaat ggaataagag aaaaacaaaa catagaacaa aatacaacgt 360
 ctaaagttaa ggatatggag aaactacgat aaaaaaggag tgaggaagga gaaacaaact 420
 c 421

<210> 26923
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 26923

agcttttttag ttttcaagt ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc cagggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180
 gtattcatag ttgcttccat caagaattgg tggctgtgtc actggtcctc cttctttctc 240
 catgttcata agaatttatc tcccagatc tcaactctgtg atttcgagtg ttggctctga 300
 taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatca 357

<210> 26924
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26924

tcttntggac ctgaacaag caatcaactt ctctttctta accatgctat gtgctcgcga 60
 ctggtcctt tcttccctc gcaacttgag ttcatattg ctacccata gagctccgcg 120
 aaatttggtc cggccatact ctcccttgcg agccctcttg gtctcttggt caagggctct 180
 tgcggaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
 caacttgaac ttctccttgg caagttttgc ctttcctaac tcgcttttga gagcttggac 300
 ttctttgtct tcttccggtg cttcaaaatt ctcttcgctg acgactttta acttggcgag 360
 ccaatctaaa cctcgtatat gaactttcag ccattcgtgg taccaccaa tgatgccat 419

<210> 26925
 <211> 300
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26925

gaactaaciaa tcctcaagat gaggggctg ctctagaatc ccacatggac tactcgaatg 60
gccagactcc tgtggctcta gctgtggcca cgccttacat acagttgagc atgtcgcgcg 120
agctccaaat gtaaaagagg aaaaaatgat gatgacaaaa cgactatcga cagcgcggaag 180
cacatggtta actgaaagct tcggagtga atgaggnatc atgtccgcag attatgcatg 240
gcacgaaatt acacagtatg acgatactgg tcctggactc tgtgaaaagc ttgatttcca 300

<210> 26926

<211> 336

<212> DNA

<213> Glycine max

<400> 26926

agcttatcat ttattttgaa ctacaatgat tacaagagtc acaatttagc atataatctc 60
aagaaacaaa ttaattgtac atttgatgtt aacaagtcac acaatcacgt aaatttcac 120
atcagatgaa acaactgatt tgttatcaag agaacaaaaa gcatgaaaaa ataagtcacg 180
gacaacattc ataagacaaa agttaatact caatagcatg caattaccca tgaggcaaat 240
aataccacta tgtaaagaat gaatatgttt accttctttg catactttgt gttcaatgta 300
ggaatatggg aagtagtaga gaaggatatc caaaat 336

<210> 26927

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26927

ntatatacaa attaaaaaat tattaaatag ccacaagtct agaaaaatat aattacattt 60
gattaattta tctttttatt ttattgatat tatctcttct ttacttttat agagatgtca 120
aaaaactaaa taaattaaaa gtggacaact aataataatt agtgtctttt tcaattgaga 180
agggtcaaaa tacactttcc aataactaac tatctatcaa tctctatgtg tgtaattttt 240
attaatcaaa tagctgaatt aaaagttttt attaaataaa tgaggtttat aattacttcg 300

ttaaaaaatt tcatctaattg taaaatgtat ttcttaaaaa tataagtaaa agttgattat 360
agaactacat atatacaaat attaaattta tttaaaattt aatatatcga tt 412

<210> 26928
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26928

agctttttatc caactgtaaa acttggaat aacactagaa tggctgttgt gggaaaatgt 60
atcattcgaa tgcaagtga tggatttact caggcaattt ctggtgtcta ttatgttcct 120
gaacttaaga gtaatttatt gagcataggg aaacttcaag aaaaaggctt gactattttg 180
attcaacatg ggaagtgtag ggtatatcat tntgcaaaag gattaattat gcagacagat 240
atgagtggaa atataatgtt ttctttgttg gctaccatga taccaaaagc tttctcatgt 300
ttccaaattg tatcagaaaa tgaatctcat ctttggc 337

<210> 26929
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26929

tatccaaata attnttcatt gggtttattg ggtcaccctc tagcggacca tctgcaaattg 60
tctagttttg caaacttacg cacaagatat cacaatcctc agtatgaggg gtgtgcgctg 120
gaatcccaca ttactagta ttatggccac aataatgtgt atataactgg aggcaaccca 180
tatttgggggt tgagtttggc ccaaactcaa aattgtaaaa gaaattatta atgaaaatga 240
tagatagaca atcttttagct tggattagat ggtaagtga ttgcttctgg gtggaatgtg 300
gtctcatgtt tgcgtgttat gcagggcacg agttatgaga atatgacgat aattgtacaa 360
aactatgtgg agagcttgat atccaaatat ccttattgga acagaacctt ggggtgctgat 420
cacttctttg 430

<210> 26930
<211> 334
<212> DNA

<213> Glycine max

<400> 26930

agctttatatt gaatcactaa gtaagttgct aacttaattg catgctgtac aatctccacc 60
ctcttctgtt ttgcagggtt taggttgtgt tatatgtggt ggagcacatg attctagctg 120
ctgcattccc acagaagata caacacatga agtgaactat atgggaaacc agccaagacc 180
aaactttaat tcagggtgggt attttggatt tcaacatggc cagcaatata atcagcaaca 240
gggacagtgg agaactcacc ctagtaatca gttcaataaa gaccaaggtg ggccatctaa 300
cagaccacag caacaagggc ctagtcttta tgat 334

<210> 26931

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26931

nttactctct ggtaatcgat taccagagga tgtaattggt taccagtggc caaatacgtt 60
ttataacagc tataaaaatt tgaattcgaa attttaaaag ctgtaatcga ttacacaatt 120
gtggtaatcg attaccagca gttagtaaac gttttaattc aaatttttaa agctgtaatc 180
gattacacaa tttctgtaat cgattaccag acaggaattt cagaaaaata atttcaagag 240
tcacaacttt tcaaaggctt tactcatgac caccaatggg ctatatatat gtgacttaaa 300
cacgaaattg ctcagagatt ttcagaacaa caaagtgttt atctctctcaa aaagcaattt 360
cattttatcc tcttaaagaa ttccttggcc aattcaattg caattcatta aggaattaat 420
tgagt 425

<210> 26932

<211> 281

<212> DNA

<213> Glycine max

<400> 26932

agctctttat gaagtacctt tttcattttg caagtaggat tgtaatatca agaagtacca 60
aatgattgta tgaatctatt cttttgttgt gttatacaca agtccatcat actatccatt 120
ttctactgaa aggcttctgc ctttggatac attggtgggc ataagttctt gtgatggaaa 180

caccctctat atctatggaa caatgctatg cacatgtaac cctcttacac tgcaaaatag 240
 agtgagctcc attcactggg ctgtcaaaca tcactatgga t 281

<210> 26933
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 26933

ctttgataaa taacctgtca tatactgctt gagcttatct tgttagccta tccaagcttc 60
 tttttcatta aggatcatgt ccaccttatt acaccacctt cttatggaag tgataccatg 120
 gaagtagtga gtgttgggtt accatggaag atccacttag aatgagattt ttggtacat 180
 agaatctcct cctcgacaag aagtttttgg tattcaatcc acaccattct ctacttctcc 240
 aacatcagac aattagatta gtgtttgaga tattctagag cttccttaat accttttctt 300
 gacgaatata tgcccacaga tatgtttatt ccagatctag agcttcttct taaacatgat 360
 aatgtgcata ttccaagaat cttgcttctg ccaattatca cccatgaacc attcaaaatc 420
 ttcacgcgat at 432

<210> 26934
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 26934

agctttttat taatctccat catcaataac tttggtcttc gatctcacca aaattgaatc 60
 attgagtgtg attgagattg gtagtcatac aaaagcacia gtaaaatctt cattgtgaat 120
 ctttacaatt gcacctttgt taactgtctc aatcaacaat ggcatgtacc atacatgttt 180
 cttaaaaata acttgaattt cgtatggcat aattgaggct tcatgtgatt tcaagatatg 240
 atgattttgt ttttgggata tgacttgtga gtattaatgc tgaatatgtc ttaagtttag 300
 aatacttctc gagtatttaa catcttttat gtatattaaa agttggttgc tctatatt 358

<210> 26935
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 26935

tgctctaaat ttacattgat gtttgtatatt atgggatgtt gttatatgcc atttttgctt 60
taagagtaat gtccactg taaaactaac tttccaaatg tttgccttcg caggaatggc 120
ctcgaggaag cttgcctcaa agaggccag gaaggacaag ggggccgaag gaactagtcc 180
cgctcggag tacgacagtc accgctttag gagcgttgta caccagcagc gcttcgaagc 240
catcaaggga tggtcatttc tccgggagcg acgcgtccag ctgagggacg acgagtatac 300
tgatttccag gaggaaatag ggcgcggcg gtgggcacca ctggttactc ccatggccaa 360
gtttgatcca gaaatagtcc ttgagtttta tgccaatgct tagccaacag aggagggcgt 420
gcgtgacatg ag 432

<210> 26936

<211> 360

<212> DNA

<213> Glycine max

<400> 26936

agcttgctcg cagtttaaaa atacgaatca ttgaaatatt aaacatcttc agaaaaaaaa 60
ggttgactg ataactctgtg aaataataaa gagaatccat tcatcatatg atattggaac 120
ttcattactg catgttctct ttttttgcta tgaaatgaca tccttgaggt ctatcttcat 180
aacatgccac tagaaaatga cttgggatca agaactgtag tggtcggctt cttggattga 240
tgttttacag tttcataata agttttgatt gacatctgat atggacatgg tagatgtcac 300
atctatgcca atgcttcatt tgtaataaag tcgacacaca gatgtgcagg acattttaaag 360

<210> 26937

<211> 422

<212> DNA

<213> Glycine max

<400> 26937

cctgtttagt gagaagataa tcaaacatt ttcttctttt aagctgagaa catcttcaaa 60
ttgtgtctaa atattattac aactcataac caatccatag tcaaacgac aaaagcttcc 120
aaagagctca taacatttta agttcgtgct caatatcatt ctagctcgga accaatacat 180
attcgaaaca gcaaagtatt tcagatcatc agaacagaaa atagttccga gtgaaccaag 240

cttaatgaaa atcatcatgt tcaaggcggg agattgcaac agaagtaacg tcagttatca 300
atggttctgt cggttcacct atattgaaaa ataaaagtta gaatataaat atttaacttg 360
acaaatttaa ttcaatcttt ataaagaata ctttcatcat cagactccat ttcagtgagt 420
aa 422

<210> 26938
<211> 273
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 26938

tgctgctttt aatggttagn tattttcaaa tcataatagc agctggatcg acaccttttc 60
atgatttgaa aagtgtggaa cagcatgtat ggtggaagac gagtaagaat atctatcttt 120
ccaaaatctt ggagggcaat tatgcatgtg ttctggattg gattcacgat cctgacatgc 180
tagtgtatcg tgttggagct ccgattataa gttcgacaag ttttgctgca acattcatta 240
caaaagcaga tcagatgctt aaagtaattt atg 273

<210> 26939
<211> 331
<212> DNA
<213> Glycine max
<400> 26939

ttcaataact gatatgaaaa gtcggataca atgttttaaaa agctgaaagc gattacgcaa 60
ttgtggaaga cgaacaccag ctatatgaac accctctgtg tcatacaata gatactgcaa 120
tcgatcacac agtagcttgt gccgattact ggacatgtct ctctcacccc tactgactag 180
agtcacatct cgacaaagac catactcatg accgccgatg gcatgtgtat atgtggacat 240
aagagagata tggcgcagag atttcaaaac tcattgggga tatactgtca ccgagcaata 300
gaattttatc ctctatgaga gatccttgat c 331

<210> 26940
<211> 303
<212> DNA
<213> Glycine max

<400> 26940

ttagcttatt atctactttt tcaaggatta aaacctttac atgaagcatt agttttctat 60
ttaaagaaaa tgtcttataa ttaattagca tttcctttaa tttttataag aaaaattatt 120
tgacaattaa tccttggttt tcaagacatg aaattaagaa tagtataaaa gcttatagct 180
acatgtattg tattggctcg tattggttta attgtgattt tcaaagatag gagaatcata 240
ctatgtgttc ttccattata tatatatata tatatatata tatatatata tatatatata 300
tat 303

<210> 26941

<211> 415

<212> DNA

<213> Glycine max

<400> 26941

tgcagccatt agaagaaaaa gaacatgtgt tcagaagtat gactgatttt gttagtcagt 60
ttgtcagatt gattgtgagg gaatgcattg atcgtatccc tgtgagagta tgatccttaa 120
attttgagaa aaacgactat catttagtac tgatttttgc atgaatctct gaagtatgga 180
ctgaatgctg gaattgagga tgatgaaggc catgttttga ttgtgatagc tacttgccaa 240
aaagctgacc ttgtgcttga atgatttata ccttgcaccc agtttgagct gaatgaattg 300
ttgattgatt gaaccttgag cctatacagt gttatctctt gctaccttgc cttatgttgt 360
atgagagcat catccacaaa aaagctaggt tcatggaaaa tttgtcccat atttg 415

<210> 26942

<211> 344

<212> DNA

<213> Glycine max

<400> 26942

tcaagcttgc ttctacaatc tccccctttg tgatgatgac aaccctgaaa tcaagaaaca 60
catacacatt ctttgtccta gtcgatcact cacttaattc tccatattct cccgctttgt 120
tcttgagttt aaccttcact tgaaataaag ttatttaatt atatgagttc ttgatttaat 180
tcctattttc tctccccctt tggcatcaac aaagagccaa aggtcgtaag taatataaga 240
accatacata aatgactaat catacaagag aatagcaaac aattaacaa gataacataa 300

tgatcatccc taatttcgtc ccgggattat tacttgatga cctg 344

<210> 26943
<211> 349
<212> DNA
<213> Glycine max

<400> 26943

tgccagtggg gcttcgtatg gagggggaag tggatgatctt caatgaggtc ctttaaagggt 60
gagtttccac catggagatg cccggacaga caaaggagaa taggtggaat gaggcgcat 120
aactagggga ataagccgtg gaagaaggag cttgaccacc atgaggagcc ttggataata 180
agcttgagga ggatgctgct atgggggaga agacagacgg cgacacttag agagggggga 240
gcacaggatt gaaagacgag aacgagacag acgctgaact ttgaactgtg tctcacaaga 300
ctctcatgca tcaaagctac aacaagtgtc acacattctt ctatttata 349

<210> 26944
<211> 360
<212> DNA
<213> Glycine max

<400> 26944

agcttttgat tttgacttga taaaaccttt tcttaagtag aggtgtttga tttgatccca 60
tgtttactag aatgaaaagt tttgtttgaa ttaatacttc gatatactat catggaggaa 120
aacaggatgc attcatgaag ggatgcttac gctaggcatg acacaaatgc attttacgga 180
caagagagcc cgaaagatca tcctttctta cttgcaacat ttggcaacac ggtgccccca 240
tgtatgcatt taagaagggtg atacggacct tctgacttcc tgcaatacag acataaatgc 300
gtaaaagtgc atggttgata gcacaaaaga ggaacatacc agcatggaaa tatcatcaaa 360

<210> 26945
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26945

ntggtacctt gtactgtaca tataagactt tgattcttat ttaaagttaa aaataatgat 60
ttccaatatg aaggaattta gtaccgttag ttattatgat tattcttagt atttttttgt 120

ttcaaaataa ttatcatcct tcattatctt atataaaaaa tattgcataa ataaaataga 180
ataataatctt tacaaaatta aacttatatc attattaata tataaagaat ataaataaaa 240
gaagtaatta atgttacatt acaaattaaa atattaaaat gataattatt ttaagataat 300
taagatatta aaatgataat tatattaaag ttgagctaaa acagttatct tcattttttt 360
tctcaacata aatatgttta acatagataa ttttttactt ttaaggtttt agagcatcct 420
cg 422

<210> 26946
<211> 270
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 26946

tctgcttttt atactgangg ngnnagagga gagattggtt attattatct tgtctataag 60
atgcttattc tgccaagcaa acgaggattc cttacacaac cttgttgaac cttctttttt 120
taccagaagt ggatttacia cactcttcta tttggatggc tgggtgtgtac ttaatgctac 180
taattcagtt tcttgaaaac aaagtggcta tagagcttac acgagcagaa tttgttgaag 240
cacaagaggt tggttatcat tctattgata 270

<210> 26947
<211> 406
<212> DNA
<213> Glycine max
<400> 26947

tctggtgttc tgctagcagc tccgatatgt tctgactatg aaaacgtgaa taagaacatc 60
acaccagaa gtttaattgaa atcctgacac caaacatata cgtatacata taacatagca 120
tatagcatag gaacctaaaa agtcacaatc atcagtttga ctataaataa cagaagaaga 180
atcaccccc attccatata cttttcaacc tcaaaattgc ttctcatgtt tatgtatgga 240
gaatagggcc ttgctggtga aggtgaggag atctgattgt acaaaccaga catcaattat 300
acaagaataa gggctgcaag ttttgacag aaagactaga gacaattcaa ggtagcaaga 360
gacaagtga agcgcgatag agatggggtc tggcctctaa gatcct 406

<210> 26948
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 26948

tttgcgtttt tcttgtctct gaaaaaatac aaggcatcat tgccttatat aggcggagga 60
 caaaacggac tagaataatg acgctgtcca cttccatatt gatttaggtc gcacgccagc 120
 agttcaccac cttagactaa catccatatt cgacacaaac tgctcgctgc aatgacacaa 180
 caacttaacc ccgacaataa acattgagcg agcttatgcy aagatcaaac ttgctctttg 240
 gaactggcta tgagaacata tcagcaagat tgcgcataga gctaattcta tgaacattga 300
 tgatctttat gaccgaacga agtgatatct aacatgtata tgctaggatg tatcatgatg 360
 aacctgatcc t 371

<210> 26949
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 26949

ctataaaact ccgctatggc tgctgctggc catgttcccc ctttaacact thtagccatt 60
 catgctgagc tcttaggtca cccgacatat aacataatgt ctacagcgga ccaaactacc 120
 ctactgcaaa catcaataca ggggctaana cattcccatg ctggacatgc tgcggcatat 180
 ggtcagcctc ttgctaagag tcttctgaac attggcaaga atatctctcc atctatcttg 240
 actggcaatg atacgacatg aggatatggt gcatggctga catctaataa tacaattggt 300
 ttaatgagac ccaataatat tgacgaaatg gtggatgttc acaataacaa catgctga 358

<210> 26950
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26950

agcttatcac cactctcctt cataccactg gccacaccac caacaacttc agcttcgtga 60
 atctcacttg cgactcccaa tttggcgctca tctcgatcct cttccccgca ccgtactctc 120

cctctaatagc caccatcctc ttcttcataa agaagcgtga tggcactaga aaaccactga 180
 gcgccactac gctgaacttt ctctcatcg gtagggacac atcgttggtg gcgctaagct 240
 ggttcttctg actcttcatg aaccacccca tcgtggaaga aaagatcctc gcagagctaa 300
 cgttggtgct tacttncact catggcgggcg accgacgaca ctggatg 347

<210> 26951
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 26951

tcttcggagc catcgctac aaagacacat ccaactaata gttagcatga aaattatttt 60
 gcatgaaata cataaccata ctattttagt tatcccaagt atagcaacca agaagtcaac 120
 caatttttgt gtggtcttta gtaattgtag gtattaccat acaactaata aagatcacca 180
 ctcaatgtgt attattttga aggaaagaat ttgacattct acagcaattt atgcgcaatg 240
 taccgcctt ggtgcaacaa gtttaaccaa acaattagggc cagttcaatt caaacaactt 300
 taagcattca tatgacttat gcaattgcat ctaaagcaat gcccaaaact tcaagcttag 360
 ttcataccct tggcatttaa tttaacaacc taagttgatc atgcacctaa aataatggct 420
 gaacatgtgt a 431

<210> 26952
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 26952

agctttatac aatgtgtcat aagatacaag tatcattcaa ggtaagctat ttggtcaaaa 60
 gagcttgtgt ctatacaatt catggccttc atcatgttct gagttagaca aatcattcta 120
 gaattcagag atttatgcta agatcaatat tcacagtttag tcgttcactc acagagtaag 180
 gtcacactct taccggtttt ggttcaagct tttctttcac aatcaatctg tctactgact 240
 aacaattcta attacaagtt tacattcttg ttctttcttt gtctaacata cacacttgct 300
 caaactcatg ataagaaaca cacactgcat cacaatcatg cgttcaattc aaaataa 357

<210> 26953
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 26953

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tgttaaccca tggaagctcc taatatctcc tacactttcg ggggtgtcca ttcttggatg 60
gcgttgatgt tctcagggtc cacttggacc ccatttctac aaactacaaa ccctaagaaa 120
actatattat ctacacaaag ggtacaattc tctatatttt catagagggt gtttttccta 180
aggactgaaa gaacttgcct gagatgtcct aagtgatcat ctaggctcct actgtacact 240
aaaatatcat caaaataaac aactacaaat atacttatga aatcccttaa gacatgatgc 300
ataagcctca taaagggtgt cggtgcatta gtgagcccaa caggcattac tagccattca 360
tacaaaccaa acttggctct gaaagegggt attcactcat caccctcttt catcctgatt 420
aggtga 426
```

<210> 26954
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26954

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agcttttttt gctttttatg tggaccaaatt tatcaacact tagtgagtga ggttctgttg 60
taagtgatga ggactctgct attgatgctg accacagtct aatgcggagg ctggatcgct 120
tggagttgaa catgcaggcg atgttcgatg ctacagcaaaa gtaccttgag ggcttgtcta 180
aacgttttgg taatgaaaaa ttatctgggtt attaagtatc tgtatgttaa ggtatacact 240
ttttttaagt gattaaaatt aaaagttcac tttgcttttg ggtttgcttg gtgttngatc 300
aatgatcatg catcatatac catgagacgc atcttgggtgc tggcacgata agggcattca 360
cccgcttcta atct 374
```

<210> 26955
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26955

ctaccctata tatagagggc cgaatattag tataaactta ttagtttatg ggagtttcac 60
aacattttgt gtttttcagt cccaatgct aaatttcaat aaaatggctt acttgtagat 120
gtgtttccaa accaagtttt atatatgctga atagcatcct acaaatggaa aactagaaaa 180
gtaaatagatt aagctagagg ctcttttact gctacgaatg gaataatgaa aaagtaatat 240
gaggcttttt cttggattgg agatgcatcg aaattttaat taccaaatga attgtggagt 300
ttgatttgcc atctgataat ttacctactg atcaatgttt atctgcaacg gagatatgag 360
atatcattct cactatcatt aatatgataa acatcataca actntaggat caaatatttg 420
atatgatgg 429

<210> 26956
<211> 371
<212> DNA
<213> Glycine max

<400> 26956
agcttttccg gaattgctgg cacaataatt cttttttttt gcagacattg tgcaattttt 60
ttcttatttt tcaccaacgc caggcaataa ttgttttagt acgatcaagc taatttttct 120
tgttgatttc gctcaatgat aagttttacca tcgaggctgc ctttggtatt tcgtgggaac 180
tcaaccgccg atgtgtttcg gtcgacattg gcctgcgctg gtaaaagagg caaagaaaaa 240
tatagccgac tttggcagca aaaacaaatc cctcgacaaa cttggatgat aaacaactct 300
agccgacatc ggccaagaaa gattaactgt cgctgtatcc caaaaagaat caccggatga 360
agactatcga a 371

<210> 26957
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26957

aactcaagct tgcaagacga catccaattg gcagttntca caccatgata tcaaatttat 60
gtngatagag ttggggcttc gccttagact cggtttgcca tttgatgcca ttcaatacca 120
tgtgcaatgg aacccttaaa ctacgaagaa tgtaacaccc taattttctca aaatgtaatt 180

ataccttaat tattttatctt cttttatctta taaagaatat tgatgaattt aagttcacaa 240
 ttatataaac ttgggaaaaa gtgaaccgga attttattgc gtaataaata aaacaacttc 300
 atattttcaa aaggaaagca taatgcagtt ttacttagaa gcttacttct tcaatttaaa 360
 gtggaatata agagatggaa catatctaaa ttacaaaata tagatatgtg tgtgtgtgca 420
 cgcataacta tttcccca 438

<210> 26958
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 26958

agctttccat attttgttaa aaactctcat tcaattcatg ctcaattttt taacataaac 60
 cctacatttt atcagatgag ttgcatctaa tgaaagacat gttactgcaa taaatacaaa 120
 cacgacctga aatatttcaa ctaacccaaa acctatcact ctgaaactag cgcggatcaa 180
 tagcgagcac actggagact aataaagaag agaagtactg tattgtctat cagcctaggc 240
 ccacattcta gcaaagtgtc taattaaaaat taatataggg aaataatgaa agatgtatat 300
 attaaaaaat agtgcattgca ggtaactggt agataccagt agttcttgcc atcaaact 360
 gataaaaatg taaatctttc atttgcattc t 391

<210> 26959
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 26959

tgctataaat atccattaag ccaaatagta agcagccttc ctattgttat tgagattatg 60
 aacacataaa aattcatatg ttgggctaac ataaaattac gagctagctt atatattaaa 120
 aacaaaaaca cttgaggaag ggggtctgag actctgaggt tgggtggcac aggcagttta 180
 atagattttc atatagatgc tgaagaaaat ggagttatgc ccactcatat ttgtgtcttt 240
 gtctaaacac agaacacgct aacaaaaaag agattaattg caatgagccc tttattattt 300
 ttctagagac cgattctca ctgtggcatg gcatccaaat aaacagttta agagaccttc 360
 acatcagcca tgagctaaca ctctaaaact aaaatctctt ggattacttg caagattcta 420

ccataagca

429

<210> 26960
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26960

ttaagcttgt atgtgaacgt caaaaatntg aacgttgggt aagttttcag ctataaaaaa 60
attgcttgag aaccttgatt gtttacgctt gcatttcatt tctcctcact gagttctctt 120
tgtgtttttt cttgagtgtg agcttgtgca ttgttgtgtg cttcttgctt tgtgctcctt 180
ggttcaaatt tgggtgtgtg cttccttcct tcaagtgtc ttacccttac caagtaagtg 240
ttttgaaagt aaataaaatt tatatatctt gtaataaat attataagtt taagttagtt 300
agtattatca aatattctaa gttagttagt atgtaaata taggttagtt agtattaata 360
aaaattctaa gtttaaatta 380

<210> 26961
<211> 422
<212> DNA
<213> Glycine max

<400> 26961

tagagaggaa gcttcaatgg aggaagaaat cgagagtttt aggggggagc acgaaattga 60
aggagaaaaa gagggagaga agttgaactt tgaagtgtgt ctcacaagtt tcatattcat 120
caaagttatg acaagtgtta cacatgcttc tatttagagc ctaggtcatt aactaaatga 180
aagcctcctt gagaagcttc cttgagaaac ttccttgaga agctagagtt tagctacaca 240
ccccctttaa tagctaagtt cacctccttg aggagcttcc ttgagaaatt tccttgagaa 300
atttccttga gaagctagag cttagctaca cacacacccc tctaataagct aagctcacc 360
ccatgccaaa attcatgaaa atacaaaaaa gtcctacta caaagactac tcataatgcc 420
ct 422

<210> 26962
<211> 220
<212> DNA
<213> Glycine max

<400> 26962

ctttaagctt ttatccattt ctcgaaaaat catgctggaga aatgtttatt agagccagtg 60
catacctaaa tatcacggaa gactttgatg aaattgagac gccactgggt ccgacacttg 120
cacctgcact gaccgatggg atcccatgaa aaacaattgg agtgagctat gagaccttta 180
atgaacctat ccgaggaatg ctcataaagc aggggctgaa 220

<210> 26963

<211> 342

<212> DNA

<213> Glycine max

<400> 26963

tgacaaacaa agctaatacga agcaagtaat atataaaatc tattattttc aaaaaatcaa 60
tagtgcaaaa ggcatttgaa atggtaatat cttttaatat tttatattca ttttcttata 120
agttatataa taataactca ttttttattt tgtgattgct tttatatgat atatgaaagg 180
ttggcgaaat ttataaaggc atcatgcatt gcattatatt atttaatttg ctctttacta 240
tatttaattt taacagacaa aagatccaat atctagttaa tgatcagatg ctgcggaagt 300
ttggaaggcc acacacacga gatctaattg aacctgtgca tt 342

<210> 26964

<211> 285

<212> DNA

<213> Glycine max

<400> 26964

cttcagcttt ttttgatcgt ttatatttta ttgttggttac ctttaattgat gtggatcatt 60
tatagttaag atgttggtta gagagaaaat ggaaaattat ttgagaggat ctaaatttag 120
aggaaaaaaa atgatgatgc gatctatctg aaaagggttaa cacgtgccat tcagacatta 180
ataattatat gggttaattg ttacaaaata taactaggac tcatgttgct tatcaagcac 240
ataatattta ggataaaatt aatttttaaaa aaaatatttt ataca 285

<210> 26965

<211> 423

<212> DNA

<213> Glycine max

<400> 26965

taaaagtatc actttgttta tcaaatttat ttaatgtgta tgtcaacctt cctgtaaaaa 60

catgctccct cactccaaga atgcttggag ggcgaaggcc atgattcgca tggaaactcct 120

ccagaagatt cctcattttc attgctttctt caagataatt gtcctttcaa aattttaaaaa 180

atatatatca gattaaatta cataaatttt ctttcccatc tcattcattc actcacatac 240

atacagttga gggcagagga agagggattt ctctacaaaa ggctggtgaa ccacatatta 300

atccaaggtc aataagtatg caacagtcca aatgacatgt aaaagtgaat ttcaaggatt 360

tggaagaact gaacaagtac aacaggataa aaatctcact aatgccatga ccgcaacagg 420

att 423

<210> 26966

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26966

ttaagcttgt atgattattg agnaccatc acatgtggta ctatgtggcg gtcgggcat 60

ggtgcacaac aagttttcca catccacaaa gcgcgcataa acccaccatc cctgtttgcc 120

cacctccaac tgagctcag tactcccacg tagcccatat ccttttttct ctcaacaccg 180

ggtcccatc aatcctccca agctttccca acatcaaagc aaaacaacat tcaaacagca 240

caagctatca cagccaagca aaacagagca taggcagaat actctgcca aacaccaacc 300

aaatcacagc ttttctcact tatagacccc agtaacaatt acttcgatcc aattcggtta 360

ccgttggatc gact 374

<210> 26967

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26967

tgtaggatta tggggtaccc atcacatgtt ttactagttg gcggncctgc ganggcgcac 60

aacaagtttt ccacattcac aaatcgcgca taaacccacc atcccctgtt gccacactcc 120

aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtctcc 180
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa catccaaatc atcacaaact 240
aacaaacca gcaaaacagg gcaaaggcag aaaactctgc ccaaaacaca actcaaaatc 300
acagcttttc acatacaaat accccagtaa catttccttc gttccaattc gttaaccgtt 360
ggatcgactc taaaattcta ctggaagtct ctagtacata cgtctacatt ttgaccgttg 420
ggat 424

<210> 26968
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 26968

agctttgacg actttgntng agtcgagaat actttattat ttatttggac aagtttgaat 60
atgatgtaga agaaaatgaa tgtgagcctt tttccccttt gaaagacttg taaaaaatg 120
ttttaaaaat acttttaatt aatatttgaa ttttttccc ttattagtat atatgtgagg 180
ggtagatggt gtcacattca tccaccgaat accagataaa acttcaaaaa ggaaaaaaga 240
aaattgtaca aatttatggt ctatatagtc agccaattaa aatcatagtc ctttgatatt 300
aaaaaaaaca tgcaacaaac gttgcacacg tactcgcat atatttgttg ccaaatgagt 360
gaatgaacca aactatttct a 381

<210> 26969
<211> 420
<212> DNA
<213> Glycine max
<400> 26969

tcaggaaactt ctacagaaat ggtcagcact gcatgctata tatgtttttt catccagtgt 60
aaggccaatt attttttatt tttatagtga aagaagattt tccttaataa ataatgagt 120
aaatagatga tagagaataa aatattatga aaagaaaaca taaaagatga acagaaagtg 180
tgaaggcaag ggtttgatat gaacttgtag tctgtttgat agctataatc caaataatga 240
caaatgagtg tgtaagatgc ccaaatgaaa attcttgctt ttctcttata aaccatagaa 300

tcttgaagtt taaagtgttc tcaatttcaa atcaagattt tgaagtttgt ttttgatgaa 360
tagacattaa ttttggcatt ggtgatgggt tgtatgagat tattgggtctt ctggatataa 420

<210> 26970
<211> 352
<212> DNA
<213> Glycine max

<400> 26970

tagcttctag agaaagctac atgaagctga ctcggtaaaa atgctgcgca gccttcgtta 60
accgttggat cttctcgaaa tttggtttgc aactttgcaa gacacatgtc catgatctga 120
ccgttgggat ctttgagaag atatctggag tgtgctagaa gcctcttaat gaagcttctg 180
gaggaagcct cttaatgaag cttctagaga aaactacatg aagctgcctc ggtaaaaacg 240
ctgcccagcc ttcgttaacc attagatctt ctcgaaattt ggtttgcaac ttcaaaagac 300
acttgtccat gatctgaccg ttgggatctg tgagatgatg tcaggagtat gc 352

<210> 26971
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26971

gggtcggggc agcggtcatt taccaagaaa tatccgttta tggcttcagg ggcacatca 60
acaatattac cgccaacaat tacctcacct tcaccgatga ggagataccc atcgaggggtc 120
ggggacataa tagggcctta catgtgtcca tcaagtgttt ggaccacatc gtggccaagg 180
ttcttatcga caacgactcg tcattgaatg tcatgcctaa aagcacgttg gacaaattgc 240
ctttcaacgc gtcacacttc aggccgagct ccatgggtgt gcgggctttc gacggcagcc 300
gccgggacgt aaggggggag attgatctcc taattcagat tggacctcac atctgttaga 360
tcactntcca agtgatggat atcaaccoga cctatagct 399

<210> 26972
<211> 242
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 26972

tagcctggag aggangcncc aatggacgaa aagaaagagg gttcancaag aaagaacgcc 60

gatcactaaa ttgatggaag aactaaggac tcaactcgaa catttgagtt gtgtctcaca 120

agacttgcac tcatcaaaat tactacatgt gaaactcatg cctctattta tacactaggt 180

atcttacttg acaatccttt ttaagacatc atacttgaga agctttctct gtaaacaatcc 240

tt 242

<210> 26973

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 26973

tggagaggat gcttcaatgt cgaanagtat gagggagtta taagagagag gggggagcac 60

gaaattgaag gaataaaaga gggagagaag tggaactttg aagtatgtct cataagactc 120

tcattcatca aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc 180

cttgagaaga tttcttgaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 240

aagctagagc ttagctacac acaccctct cataactaag ctcacctcct tgagaagctt 300

ccttaagaag attcctaaag aagctagagc ttagctacac atacctttct aatagctaag 360

ctcacctcct tgagatgaga agctagaact tagctacaca cccnctataa tagct 415

<210> 26974

<211> 314

<212> DNA

<213> Glycine max

<400> 26974

agcttggtgc accattaaca tattttacgt catacaaatt caagataagt taattaaaaa 60

gatttacgct tttcttttct tctcaagtt ttctccttg ttgtacagtt gatcgagttc 120

atcattcatt gtatctatct cttggtgcaa ttttttattt ttttccatgg ttttataagt 180

aatttcacgt ccacgcatta ccatcgactt caacactaga gcacaattta catgatcatc 240

tgccgtgtaa taagatgaag ttcaaacatc aaaccaataa attaaacata tgcttaatat 300

attcaagagt ggag 314

<210> 26975
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26975

cttgaagagg atgctntaat ggaggaaaag aaagagagaa tgtgggagct cgaaattggt 60
 ggaataaaaag aaggaaagaa gtggaacttt gaagtgtatc tcataagact ttcattcatc 120
 aaagttacaa caagtgttac acatgcttct atttatagac taggtagctt cctttagaag 180
 ctttcttaag aaaacttccct tgagaagctt tcttaagaaa acttccttga gaagtttttt 240
 tgagaaaact tccttgagaa gctagagttt agctacacac acccatctaa aaactaagct 300
 cacctccttg agaagctaga gcttagctac acacacccat ctaaaaacta agcttacctc 360
 cttgagaagc tttcttgaga agctagagct tagctacaca cccctataat agctaagctc 420
 accctcatga caa 433

<210> 26976
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26976

agcttgtctt ggtttggttat tnttaaatca taatagtagc tggtttgata cctcttcac 60
 atttgaaaag tttggaacag caggtagtgt ggaagaagaa gtagaatatc tatctttcca 120
 aaatcttgga gggcaattag gcatttggtc tggattttat tcacgatcct gacattgtag 180
 tgtatcgtgt ttgagctcca attataagtt caacaagttt tgctgtaaca ttcattagaa 240
 aaacagatca gatgcttaga gttatttatg aagctgaaat gatgatg 287

<210> 26977
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26977

tgcaatgaan attaacataa caatgtatTT ataaagtttc gacaaattaa tacaaaaatg 60
ataaataatt cttaatatata aattgacatc attttgggtcc aagttaaattg catttttggtta 120
gttattatat gaggcaaggc ttatgttttc atcttcctaa catgtaaaat taacatcatt 180
ttttaacatt ccttttgata aaattgtata tagtcattgt tgtacaaatt atttgcattt 240
atgtttcaaaa tttgtactta ggcattggatc gtaagattac aaatctattc tttcatactc 300
gaaacgttct ttcaatagtg caccttaaac ttaaactgga gtgataataa ttaaaaaattt 360
cattattatt tgcaaactca gatctatgtc taaaattagg aagggtggtaa cgtttacata 420
tgtaagga 428

<210> 26978
<211> 304
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 26978

agctctgctg gtttatatgt tttaacaagc aangagcata tgtatatcat ctgaatccga 60
atTTtgcact ttctggtatt tcaatatTTT gccctcaatg attaaactgga aggtgcagtt 120
ttgtatgaca aaatggataa ttagggaata tatttatgaa aatttttttaa caatataatt 180
ttggtggaca tggagggtcat tttgtgggag actttgtaaa gagtatgatt catcaccata 240
gcgcattgtt taaagctgtg tatcacaagc tacatacacc caccgacattt attcatttca 300
agag 304

<210> 26979
<211> 55
<212> DNA
<213> Glycine max
<400> 26979

caaacagggg agagagggca caaaagacca cgcagggggcc aacacgagag cacca 55

<210> 26980
<211> 380
<212> DNA
<213> Glycine max
<400> 26980

agtactctca ttttttatca agtctgcacg attgtgatca agatcaaaaag ctcgccaaaa 60
 ttcaggccag ttacatagaa gtcgaccaga tcttacaggg gtgttctcca caacaacttg 120
 ggcgggagca ggaatgcctg cattctgcaa accaactgca ttgctgtcag gatcaactga 180
 atttgaaaat tcagatcctg gagcttcatt tgagtttgtt gataccgcaa tagctgaatc 240
 cacaaaagtt gaatgcccat tttgaacttc tctgtagaa gatccattgt tcaaattttc 300
 actagtgtga acaactgatg attgaatatt tgaagcctgt ccagaacctg ggtccataac 360
 agttttatga tagctgtctg . 380

<210> 26981
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 26981
 tgagcaataa ttaaggggga cttgattagc ctcactttta gccatttag aaagccactc 60
 ctactcccct ctagaaaaga accatgaaac ctaagttgca tccacctggg gcctcctaaa 120
 gaaattcttt taaaattgac aagaagtcct taaatgagac tcatttggtta ccatcccaac 180
 ctaaacaat gtaagaatga aaggggtaaa tcttgacacc cttccaagtg aagattgtct 240
 tcgcaaaaga aagtccccac caaaagggga tgagggatca ttatggacaa cccccctctg 300
 gattgaatga aaaaacaaaa aatgaaacct cgttatctac aagacaacct cttcaaaacc 360
 taactacaat gagaattaaa aaataagtac aaccaagtga ggaaatgata gttgacaaaa 420
 agagatcaga ag 432

<210> 26982
 <211> 299
 <212> DNA
 <213> Glycine max

<400> 26982
 tctaggcggc gaagagactt cgtccttgtg atatgaccta gaggtggag ccatgacaga 60
 tcgatccccg tcagccttcc gctgcatgtt catggtgaaa gatgaccact ggatgacctc 120
 tttgaagctt aaagatgacc cctccatata agcccacaag caagctgcat caactccaac 180
 ctctatatga cacatctcac atcctttggg acatgcatga tccatattgt cacaacaatt 240

acttatgctc gaccatcctc cacactatca tatatggacc aataagtata catctgtga 299

<210> 26983
<211> 279
<212> DNA
<213> Glycine max

<400> 26983

agctttatga tgaatcaaga ttgattcaag gagttttgat gataacaaag atgatgacaa 60
aaagctcaaa agtcaagatc acttcatgat aacaaagatg atgacattca agaagtgatt 120
caagattgag tcaagaacac ttcaaggatc gagaggaaat ttgatttcaa gaatcaaaaa 180
tcaagattca agattcaaga ataatcaaga tcaagattca agacttcaag attcaagaat 240
caagagaaga cttaattcag attagtatta aaaaggttt 279

<210> 26984
<211> 404
<212> DNA
<213> Glycine max

<400> 26984

attacggaca ctatagaaac tcagctgtta cccatgtgag ttcggatcga tccgtacctg 60
aatcaaataa acattaaaaa tgcagtatct aggaagtgat cctatgtcgt ctaccaacga 120
gcaatgatca accaaacatt cataacagat agtaggaaaa tagtaacgaa ttggggggggg 180
gggggtgaaa ctttcttaac aaaactttca tgagaaggtt. tattaacata gcttgacctga 240
taatttgcac tgatagttac aaacttgaaa tgatgcagtg gatcgtaaca cacacatcta 300
taactaatcc acctacttgc aatctatagc ttacctacca cacccatgta tgactatact 360
tacctacttg ataatatattt tgaaatacta tatctgactt acac 404

<210> 26985
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26985

cactatgata ctaagcttct taacattcac accaagcaac ataacttgtc taattatgga 60

gtttatggac atatgttttg gcaaagtta acacttgtaa acattacgat ggatttggta 120
aaagaacaaa agggaccaaa ttgaataaag acattaacat aagggactga aagagtaatt 180
tcctccgttt tttttattga tgtaagaatt ggaagtgact aatgggatat aattggttgt 240
tcagaaataa tcttgtgatg atgtcttctt cgtcatttgt tgttcaatta ttactattag 300
ggttataggg tgaatcctgg cacaacgga aggttcttta cttgtgacct ctttttaggt 360
tcanatattg gaaataacct atcccacttg tatgggtaat gtttcgtaca tgtaccctct 420
ccacacccca ttcg 434

<210> 26986
<211> 299
<212> DNA
<213> Glycine max

<400> 26986
cttctcactt ttattactaa gcgcctatac gagaccatta ctctccgcct ttggcaacat 60
cagacagcca cagatcgtgg caaccaacac tagatgatat atctaaagtg tacataagtc 120
ctgatacatg actgcctgat atatgccaat catccgtatt attgaaccga atataatgca 180
tgcataaata agacatatgc aactatatcc caagcataag agactaagtg ctaattatcg 240
acagataacg aatgctcata atatgattac gctgaaagca tagccttgta cacggctta 299

<210> 26987
<211> 331
<212> DNA
<213> Glycine max

<400> 26987
gcatccacct ggcgccctact aaacaaaggg gctatacaca gacaagaaat gctcaaata 60
gactcaattg ttaccatgca cgccctagaca tacgttcaga gtgaaagggg aacatattga 120
caccctagca agtgaagaga tgcattgcaa actaaagtgc gcacactagg gcgatgacgg 180
accattacgg acgaccacgg totggataga gtgataacac aaactatgac tgctctatga 240
ctacaagaca agccctgcta aacctaacta caatgagaat caaaacatct gtacgaccaa 300
gcgacgaaat gatagctgac acttagagat c 331

<210> 26988

<211> 385
 <212> DNA
 <213> Glycine max

<400> 26988

tcaagctttt ttaataagat ggcctcagca aattccttat ttccagatag gaattctatc 60
 aatagacctc caatctttaa tggagagggg taccactact ggaaaacccg aatgcaaatt 120
 tttatcgagg caatagatct aaatatctgg gaagccatag aaatagggcc ttatataccc 180
 accacagtag aaagagtttc aatagatggg agttcatcaa gtgaaagcat aaccatagaa 240
 aaacctagag ataaatgggc tgaagaggat agaaaacgag tacaatacaa cttataagcc 300
 aaaaacataa taacatatgc cctacgaatg gatgaatatt tcacgggttc aaattgtaag 360
 agtgctaagg aaatgtggga cactc 385

<210> 26989
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 26989

tgccaccag ctcgcccagg cgagcaatgt tgcttccttc agaagcttct tccttctgga 60
 ggaaggatct ggaaggccca agtgggcccag attgctattg gtacccccct ttttactaaa 120
 tgcaccccc ttctattttt tggtaatgct atttccgtaa cgctacgaaa ctttacgaat 180
 ttcgtaatga tacttatgtt ccttctgcaa ggttacgaat ccttacgaat tatgtattta 240
 ctctttttta gctttcaaag aagatacggg aactcacgga ttgcgcataa acacctcttt 300
 tcgatttccg ccacgttatg gaatttcacg gatcgcgcaa gcctacttcc ttttgatttc 360
 tgacacgtct cgggacttca tttattgtgc aacaaaggac accacgtacc tcaaagcagc 420

<210> 26990
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26990

agcnttccat gctgtcgtca ttccaacctt aaccctttt gagctcgtac tcgtgcccta 60
 acttcacgcg ggctaccatc aaggcagtgc tggacgagcg tggttgact gggggagaca 120

cgacataggc gtggctttcc acttccaaag ctgggaaaga catctctgag gattcttcag 180
 cggcttgcac gtatggtgta taagaggagac aactcacaag gatgtcttcc tcaccggaga 240
 ctatgattag ctgcccttct acaataaaact ttaatctttg 280

<210> 26991
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26991

tgtaggatta tgggttacct atcacatgtg gtactatgtg gcggnccgggc gatggtgcac 60
 aacaagtttt tccacatcca caaatcacgc ataaaccacac catcccctgt tgcccacctc 120
 caactgagct cacgtactcc cacgtagccc atatcctcgt ttctctcaac accgggtccc 180
 catcaatcct cccaagcttc cccaacatcc aggtaataca acattcaaac agcacaaact 240
 atcacagcca agataacagt gcaaaggcat aaaactctgc ccaaaacacc aaccaaaatc 300
 acagcttttt ctcacttaaa gaccccagta acatttcctt cgttccaatt cgttaaccgt 360
 tggatcgact cgaanatnnt actggacgtc tctagtacat aaatatac 408

<210> 26992
 <211> 172
 <212> DNA
 <213> Glycine max
 <400> 26992

agcttttttc tctatacacc tacattccta tacacaaaaa aaaacttttt tctctatatt 60
 cacacgtatt gaaaaactct ttctctctat accgacatgg cctatataaa aatctctatt 120
 ccttttcaaa gatttctttt tccccttttc aatatacact cattggttca ta 172

<210> 26993
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 26993

tttcaagaga cctactcttt ttgactgttt tcaagagttg gtcttcttgg ttgaacactg 60

aacacaaggg accaatgttc cttgggttca ttgcaagaag caggatttgc ttcttggttg 120
atcattagac gcaaaagacc aatgtctttt gggttcattg caagaagtgg gtataatttc 180
ttgggtgtta tcaactggaca caagggacca actttccttg gggttcattg caagaagtgg 240
gaataacttc ttggttgaaa tcaactgaaca caaaggaggg aagtcctttg tggttcattg 300
cttgcaaagg attttacaag gttagtggaa atctcaagcg aattgcttga ggactggacg 360
tatgcacggg ttgtggtcga actagtataa atccggatat gcattctctc tt 412

<210> 26994
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 26994

tttgcatttt agcttgtttg nggagcttct atggaggctg gatctttgag cttcaatgag 60
gtccttcaat ggtgattttt caccatggag atgcagcga aggcaaacga gaagaggata 120
tgggaggcac catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt 180
gccttgata agaagcttga aaaggatgct ttaatggagg aaaagaaaga tagaaggggg 240
gagcacgata ttgaaggaat ataagaagga aagaagtgga actctgaagt gtatctcata 300
agactttcat tcatcatagt tacaacaagt gttacacatg cttctattta t 351

<210> 26995
<211> 393
<212> DNA
<213> Glycine max

<400> 26995

tcacacaatt tatctttctc ttacttgatt ttcgaatttc caagtatgaa gtctttccta 60
actagatgat tgagatgacg catgtgtatg tgtgtagtcc tatgatgtca caaccaagaa 120
tcatctatct taattatcag acaactcadc tcatgagatg atgaatgctc aatgtttaac 180
atattgatat tacctattct cttgccaaata tggacaacct caccggacat agcttcaacta 240
ataagacaac gattcttact gaattcaatt ttgaagcctt agtcacatag ttgactaatg 300
ctcacgaagt tatgctttac tccatccaca tagaacattc tctatctgca gtttgacta 360
atttccaata tttccttctc ccattatctg tac 393

<210> 26996
 <211> 155
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26996

agctttttct taagctttnt ctgcaacctt ttctcccct ttggcaacat caaaaagcca 60
 aagaactcgg aaatcaacac agttataaca atggagtagc aagatataag tatcagagta 120
 ttaaataataa taagccaaac tcataaacia gaaat 155

<210> 26997
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 26997

ctcataaact aagcttatat aagacatacc agcattttat tgaaccagtc catggaccac 60
 tatattgggt tcagacacag catacacacc ctgttcacc acataaaagg gcccaaagag 120
 gaaggccaaa gaaaaataga aggagatctg tagatgagga caatgtcaca ggacataagc 180
 taaagaggaa attggctgag ttacatgtg gaagggtgta ccaaaccaat cataacatta 240
 gaagctgtaa aaatattgga attcctgtta ggccaaagaa atatgttgca ccatcaactt 300
 caaatgagga tgacctcta ttatctcaag atgaacaagc tttgaatgag gctaaagaag 360
 ctgctgctta tgttcaaaaa gattcgggtg agattaattt atctcagcct catttgtcac 420
 aagatagtga catggagttg atg 443

<210> 26998
 <211> 263
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 26998

agcttgtgct gctattaaac gaaatagatn tatgggtcac atggtgaata atttacacta 60
 aaagcatctg catcacaaca tttagaattg ggataattac catgtacata caaagcatga 120
 agagatagct tgagggtgaa actgancatc tagagatcat gaccattana gcaacaaaaa 180

gtagcaggg gtaataggtg ataatgatat agttacaagt aaaaagaatg aaatctcatg 240
ctcatattta cgtatcaatg ctt 263

<210> 26999
<211> 429
<212> DNA
<213> Glycine max

<400> 26999

ttctaagtgg ttagtcacaa cattaattgt taaatgtttt agatgtttat gtgaacctaa 60
tgtcaatgcg cattttctca tgttcaaaag atcatttctt aaataaaagc aattctcaaa 120
atattgttat aatgaaatcc ttagtttatg ttatgcagat gcaacactta gaatgttata 180
gtttagaatg atgtgttcag aaagctatag ctcaaatgt tgttttcagc tttcatacac 240
aaacttgttt tcatgtttta tgagatTTTT cacttttga tgcatatgat tgaaccagtt 300
taagatagat tgttatcaca aagatgactt agttcaaata tgtcatataa caaacattt 360
aagcatgtta tgaaaatctt ctcaagtatg cattctgatg tagatgaagt atatatgaca 420
aagagtaat 429

<210> 27000
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27000

agcttgttta tgttttgact ttacatgcc taactccctt gagtggcatt tgtattgggt 60
tttatcttgt atgttgcac ttaatacata tgatatttgt attgcatcat tcattatcat 120
ggttaatgtg aagaaaaagt tcttcaagag acaaaagctc ttaattttta ttgattacaa 180
gtccattgta atcaattaca acatgttggt tgaagcttga agagttaagt cttgtatcgg 240
tttaatcgat tacagttgtc tcataattga ttactctgtt ctttgagaca atgacaaatt 300
tattcangag tctctgcttt aatcaattgc caagtggatt aatcaattac ttctctctca 360

<210> 27001
<211> 431
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27001

cttagagaat gtttggtga cacaagggtg acaaattatg ttaaagagat tagtgaatat 60
tgaacaaggt ttgccatctt attttgaaat ggctttccaa attacttata cctattttgg 120
aataactatc ctaaaatatg aaaaatatga aaatcatatt ttggaataac tattatagaa 180
taagtaattt agaaacctat ttcagaatat atattctaga atataatttt catattctga 240
attagttatt ctggaatagg gatacatttc tagaatgggc attctgtgat aaagagaggg 300
ttaatatatg aatttttaag catttggggg tgtagcgcan aaaatagggt acaggaagca 360
attgcccatt atgaacataa tgatgatgga tctggggatg gtgcattgat atatcatatt 420
cacgcaaaga c 431

<210> 27002

<211> 366

<212> DNA

<213> Glycine max

<400> 27002

agcttggttag ttttttaggc tttgagtctt aacttatcca gctcattcaa ttgttgctac 60
ctgttgctac ctacaagcct aagatcaaag tttagaaact atagagccca catggctttg 120
tgaacaagtt caacaagcaa atggaaattc ttccataaa ctagactaaa gggagacatc 180
acagtgggag tcttaaaggt ttttttgtat gccagagtg tgtcatccaa tttcaatgac 240
caattctttc tagatgctct cacagttttc tgtaagacct tctttagtta cctattagat 300
acctcaactt aaccaattgc ttgagggtga taaagagtaa taaccttatg ggtaacacca 360
tattta 366

<210> 27003

<211> 427

<212> DNA

<213> Glycine max

<400> 27003

atgcagccca atccttcctt taagtaggta cggcgctttc tagtactttc ttgatctccc 60
tagtctaaac tccaactttt ccatttgttt acggatgata aggtgatgct actttgtgtc 120

aaacatcata gtgttgaaag acctttgaga attgagcaat acaaaagtgt gtaccttcat 180
 cactaatcaa gagtctaggc aatcaaaacc taacaaaaat gtttctcttt aagatattaa 240
 tcatcatctt tacatcattg gttggactag aaatttcttc caccactttt aagacatagt 300
 gcactactac caagatatat ctgttgccac gtgaggatgg taagggacca aaaaaatcaa 360
 ttcctaaca atcaaacact tctacctcct gcatgttctg taatggcatt tcatgtcgtc 420
 tagatat 427

<210> 27004
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 27004

ttgcatgtta gcttctgac caaccagca cggtttcgat gcccgaaact gctggatcgg 60
 agtccgaagc aagaagccga tgcaactgca tgatggagtt aaccgccacg gcttcgttcg 120
 gattcacctg cagcatccac ggcttcacgt cttcaaggcg ccacgccgcc acgccacgaa 180
 atgcaaacct aacattcacg gaccgcgcca gctcagcgag cctgagccca atttcgcgga 240
 gcgtgtcgcg gttgtcggac gagggaagcc caattcccgat gagcctcaac agc 293

<210> 27005
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 27005

tctccttcat ggtttattcc ctagtggatg acgccttctc tcaacttcttc tcttttatct 60
 tctgctgcat ctccacggcc gaaaatcacc attgaaggac ctcatgaag atcaaatact 120
 cagcctccat agaagcttct caatcaagat tccatacaaa attaaaagct tatcaattct 180
 tcaacatcca tggtaactct aaccaacaac actctaaaaa aaattaaaag ataaggatcg 240
 aatacacttg aaatgtgcaa ttctttgatt tgcaatattt cttcacaagt tgatcaattc 300
 atgtttgtaa aatgagtgac ttttagatca actttaatct ttagacgtat tatagttcta 360
 ttcttcttta agactctctt gaaatgtttt tcacaaattc tgaacgaatc 410

<210> 27006
 <211> 188
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27006

nctttcttgc ttttatactt tgnacaagaa tgaagctctg ataccacttg ttagacaagc 60
 ggcctcagat atcttaagaa ggggggggtg aattaatata tcccacactg tttcccctaa 120
 ttacatatct ttttcacttt ttactcaagt tataaattct ccttaatgac aatcttctta 180
 aatttttaa 188

<210> 27007
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 27007

tcaggttgct cattgactcc atattgctgt agagaacttc agagatctgt accgcgatct 60
 gcagaagaac atagaccaca gactcttgca acaggtgcag atgcagattt ctgattcatg 120
 gcaagctgac ttactaggtt gaccaaggca tcaagttttc cctcaagctt tttattttca 180
 atagatgaag atgaatctgc gaccacctca tggactcttc taaggacaat agcatcattt 240
 cttgcactga attgttggga gttggaagcc atcttctcaa tcaaattcct atcctcaaca 300
 ggagtcatat caccaagagc tccaccactg gcagcatcaa tcatactcct ctccatgttg 360
 ctaagtcctt catataaata ttgcacaagg aggttcttag aaatctag 408

<210> 27008
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27008

tcaagctttt gttatcacct aaaaaccatt ttttaaaggt ccaacgcctt gaaatgggtca 60
 ttttcgcttt tattgggttaa acgtggattt ttaaaaagcc taaaatcaac acatagcttt 120
 gtcacctctt tcaaaaaaaaa accaagagat cattaatggg ccaatgcctt aatattttct 180
 cccctttcaa aagaatcgaa aaatcgttta atgggtccaat gccttanatg acctttttatt 240

caatcaaata tatcttgcaa aaaaagataa

270

<210> 27009
<211> 421
<212> DNA
<213> Glycine max

<400> 27009

tgatttcggg aacttaccgg ttgaagacct aagaactgat taagaacggt caaagaacga 60
cgaagaacgg ttgaaaatct ttgcgaaatc acccacggaa atgtcacgga agcgttacgg 120
aagcgctctg gcttggattt tcttcacgga aacaattttt ctactaatt ttaagtgaat 180
ctcagatacc aggaggggtg aaaatttttg ttcttccttc cttcccctat ttataggaaa 240
aggaaggaga agcttgccac ccagctcgcc cagatgagct aggttgcttc ctccagaagg 300
caccacaatg atgcttggtt tgcacaacaa tgctcttttt gacttccaga atgttgcgaa 360
actttacgga ttgcgcaaca atgcttggtt aacatttcag aatgttacgg aactttatgg 420
a 421

<210> 27010
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27010

ttaagcttgc ttgcggggct tctatggagg ctggatcttt gagcttcaat gaggtccttt 60
aatggtgatt ttccaccatg gagatgcagc ggaagacaaa ggagatgagg tgagatgagg 120
cgccatccac tacggaataa gccatggaag aaggagcttc accactaaga taagccttgg 180
ataagaagct tgaaaggatg cttcaatgga agaaaagata gagggagaga aagagagagg 240
ggggagcacg aaattgaagg aataaaagag gtatagaagt ggaactttga agtatgtctc 300
acaagactct cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta 360
ngtagcttcc ttgagaagct ttc 383

<210> 27011
<211> 407
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27011

tattctatgg gatttaccaa gcacacaatt atcacatttt tcaagtttat ctagtttatc 60
accacctagc atattttggt tctcaagttc atgcaatcct ctttcactaa catgacctaa 120
tctcaaagtc caaagttttg ttttatcaat caatgtatta ctagttaccg atgcatttcc 180
aacaatcgtg gaaccttcaa gaataagcaa gccattactt ttattcttgt cacccttggc 240
aatgattaaa gatccatttg aaatcttaag aacaccattt aaaattctag ttgaatatcc 300
tagatcatca cacatgttta tgaaaataag atttcttttg agttctggaa tgtaccttac 360
attnttcagt agatactctc tattatcaaa catcttcaat ctacag 407

<210> 27012

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27012

agctttatta attagatggc ctacagcaat tccttatttc cagaaggga ttttatcaat 60
agacctccaa tctttaatgg agagggttac cactactgga aaaccogaat gcaaattttt 120
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
atagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
cctatagata gatggtctga agaggataga anacgagtac aatacaactt aaaagccaaa 300
aacataataa catctgccct gggaatggat gaatatttca nggtatcaaa tcgtaagagt 360
gctaangaga tgtgggacac t 381

<210> 27013

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27013

tcagaagtat gttgtggttc ctggagtaat gtacttctc ggntatttg ttnnaaccggn 60
catggcgatg agtaattgca ttacggtgca tccttttggg tactgttttg ttttctgact 120

tgggactact gggggtatcg atgatggcag gaaagacact tatgggtgtgt ttgcagacct 180
 tgttgatcca aaagaggtat gtcaaattat ttttcctttg agttgataat cttgcttttg 240
 gaagacaccc gagttggaag tttaaattct gcttttgaca tgtagcttcc tgattatcac 300
 gatgtgatca agcatcccat ggactgtgcc actatgagga agaagttggg aaatgaatct 360
 tcttatacta ccttagaaca atttgaggta tgcaaacttg tctcagttgg tcacattatt 420
 gg 422

<210> 27014
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27014

ttgcatgtta gcttaacact tccaaggac aactaggtt atttactctt ttaatagtag 60
 aatattacgc aaagcttaac aggaccaat tcacaatgcc tagaggata gctaacttac 120
 caaagaacta ttgggatttc taagcattac tctagtacac acatgcgact aagatctctg 180
 gatgtagcct ataataggaa acacatcata ggttcaaagc ccaaaatcta ggtgtactac 240
 aagttctcat attacatgtc atgccacacc gaactcatcc aaaagctagt ttgaacatgt 300
 tggcctacaa ggattntaaa acaatcttaa gagatata 338

<210> 27015
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27015

tcatggtgaa tccagggtgt ttcaaagtgt gttttgatga taacaatgat gataacaaaa 60
 gatgatgaca aagggtgatga caaaaagctc aaagggtcaat caaagaacaa ctcaagttaa 120
 tcaaagatca atcaaagaac aactcagggtg aatcaagaac aattcaagag ttcaagataa 180
 gaatcaagaa gaattcaaga ctcaagaaga aagtctagaa tcaagaatca agattcaagg 240
 ttcaagatct caagaatcaa gatcaagatt caagactcaa gattcaagaa tgaagagaag 300
 actcaatcaa gataagtatt aaaaagttct tcaaaacttt gaatagcaca tgagtttttg 360

acaaaaccct ntaccanaga gtntttactc tctggtaatc gatta

405

<210> 27016
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27016

taccttgaat gataannata ttcttngttc ccttntttgc tgaatgatat tgacaaaaat 60
ttgaaccttg aacttaaata attttctcca aataccttgt ttagattcca ggagagcatg 120
tagttcaagg caattttacc ccaaatttgg gggagtggaa ctaattggga tgcaaagaaa 180
gagataaagc atcatcacac acaacacata agttgtgtgc ttaaaaaaaaa gaaaagtaaa 240
agagaaaagt gtgctaattgt aaaaaggcca aaagcatgaa agtgaaaagc cagtgaagcaa 300
gccaatttta ttaaaaagac cattgagata agtttaagat tgggtgctctc ttataatcta 360
agcttttgaa tcttagaaaa accaatgaat tttgtacca agcctcacta c 411

<210> 27017
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27017

tagctttcat caagtggtaa tcagagcaca agagcttcaa gtaggtgctc cttaaaccctc 60
cattaatttt ttgctttacc ttctcttcca ttgttgtttt cttcattttt tctccatgta 120
tctcttcaca tgtcttgtgc taaatgtttt taacatgatt ctttagagtt tccaccaatt 180
aaacttgcta tagaagctag atttgatttt ctatgggtca aatttcttgt tcttattctt 240
gaaccatgaa ttgtgttgag ttttaagttcc tttgagtttt gtcttggtat tttttgtggc 300
tgaaacctaa atcataaaat tcttacaaaa atattaaagt agaagaaaac ctcanaaatc 360
tagagtgact tgttca 376

<210> 27018
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27018

tggcatgctc ctaccttttt ctctcagtat caacaaatta tagcaactcc atgaagccta 60
 tttcacagca agaaagatat ttgttcttag ctttttagttt tactagatat ggcatacttc 120
 aaagggctac gtgacaactg taattaagat gaccctaaag ccaaattgat tgtgttttct 180
 gttgaaagtt caaaaagatt actttatcta gcatacttct gcagaactaa ttaattacat 240
 caacttataa ttaattagaa attgctgaag ggttacattt tatgaagtta atatgcagat 300
 gagaataatt aaaacctggg aaggacatgg aatgggtcaaa cagaatgagt atgcaacaat 360
 aatagccaaa cattcacatg anaataaggt tgctnttctg cttcacattt ttc 413

<210> 27019
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27019

ncctttaact agngcatgag antctggcat tnngtgaaaa gtctnngcga tcctatagag 60
 ttgacctgac agcacgagag ctatgttcaa ctattccatc atagacatcg catgcgctct 120
 ctaccttcag atagcaatta ccctactcga atacttatta gtagatccaa acatatatat 180
 ggtcaccaga tctatgagac aattgacaca catcattcga ccactcatct taatgacaca 240
 tatgtaataa tcattcttga ctatctcacg caccgatcag ctctatcagc atggctgttt 300
 aatacatacc accttcatct tgtttcttgg tttacagcac tgttcatcac attatttaca 360
 tgtgcacgct gcctatcata ctatccacct gccgcatgac ctagcagact ggatcttact 420
 gataccatca aagagatata ctgctacact cctgtgaatt gcgtataaac acgatgcatg 480
 ctaaagcata catcaatcta tgtgtgatgt actacgtgn 519

<210> 27020
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27020

acttagagtc caagaatggt gtttatcttt cccatcatag acatcgggag attctatcta 60
 catacaactt gaaaattcct tacacaaagt ttcattagta gaactaaata taatattatc 120
 aacatatatt tgaacaatta acaactcatt ggttactttc ttaataaaca atgtttaatc 180
 aacttgggtct ctagtgaaag attgctcaag tagaaaactg ctcaatctat caaaccatga 240
 ccttgggttct tctttcaaac catacttttt cagtctatag acatgggttag gatgctagta 300
 gtccacanaa cctgggtgat gatctacata aacttcttct tcaatgagac cattaaagaa 360
 gatacacttc acatccacct gagtaagtct aacatccatg atacatgcac atgcaagcag 420
 caatcttatg tgatgtagct catg 444

<210> 27021
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 27021

atgactatgg tgagaatgat tgtgaatgcc atgcggctac tgcccttccc tcttcgtgta 60
 tacaccatct tgtcaacagc gtgatcactg agcctgaact actaccttct tattacacgc 120
 cgcctacacc tccgatcagc tcttccttgc atactccgca cagtgtgtgt atctcgctac 180
 cgaagcccca acacctcct 199

<210> 27022
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27022

tgttacagaa cttanganana atcaagaaca agcttgttct ctcatcggtc gcgtgtacga 60
 tatccactcg acaaggtttg aagtagagga caccttcaat cctataacgc aacgtggcag 120
 acaaaaatgg acagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgtact 180
 tcactatcca tgttcacaca ttattgcagc ttgtgggttac gtgagcatga actactacca 240
 atatatagat gttgtttaca ccaatgaaca catcttaca gcatactccg cacagtgggtg 300
 gcctcttggg aatgaagcgg caattcctcc ttctgatgag gcatggacac taatccctga 360
 cccaactaca attcgtgcga aaggtcggcc aaaatcaaca atgatacaga ataagatgga 420

ttgtgtcgaa ccactctgacc accgatataa atgtaataga tgtgg

465

<210> 27023
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27023

ctgcagattc tanaaatgaa atcttcaagg acgagattca tttgaaggat tcttcaatcg 60
acatattaag tcaaatagact cctattctcg ataactcact tttctctcaa aaggaacaaa 120
ctttcagaaa tgataaaatg aggccacatg aatgtctgta tatatTTTTT atttgaaaca 180
tagtcaatca aatgctTTTT ctttttttTgt ttcgaacttt actcgtcatt ntacgacacc 240
ttgaccaaac atgcataacg agtaatttct gattgaacag tcttggaagt caaacctcat 300
gagcgcatgt cgcttgagca aacaaaccaa caacttacat tcacattcca ttggaagtca 360
aataagcaaa gatgtaatta tgataggatg agagacaggg atgtcaaatt tatccatatt 420
attagcattg taattgtgtg ttacaataat ggcatacact ta 462

<210> 27024
<211> 208
<212> DNA
<213> Glycine max

<400> 27024

atatgaagca aatgaccctt gtagcaataa taaacagatg gcgtatgcta tgctggaatg 60
gatagggtgg agccaacact actgtaatat aaactgaacg actttatcca tggaaccgtt 120
tggtcacccc actcaggtta taaccttaga acataaggaa cctcgtaatg gcgtaggtac 180
ttacacgtct acgggaaagc taacgcat 208

<210> 27025
<211> 463
<212> DNA
<213> Glycine max

<400> 27025

tcgctctttg tgggagtcac tatcaaaact gaagcctttc ttatttgcac atgtggagca 60

attaaacctt ggcgcaatct tgaacaaatg gagtatgcta tgcagttctt gatgggggtg 120
 aacgaatcct tctctactat tagagggtcaa attttatcca tggatccctt ttcctcagta 180
 actaatgttc tttccttagt tcaagaagaa aagcaaaagg aagttgggtgc ttcctcctct 240
 gctagtgaag tttcacatgc ttttgccttg aagccttctt ctgctgcacg caatcatcct 300
 accaatcgct tcaaaggatc ttccaagaat cgcccccttg gtgctcattg cggtatgctg 360
 gatcatactc aggatcggtg cttcaagttg catggctatc ctccaaatta taagaggact 420
 agttgttcct cacaagtcaa gatacattct tcatcttctg aat 463

<210> 27026
 <211> 507
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27026

aaaaccttan gctaagnccg tacgnntcnt gcntncgna cnnntctaga cancanntta 60
 anannngccn agnangnagg cttacttttc tcgactcacc tcatcgcccg tagctcttca 120
 ctctatacag catcaccgtg gaatcttgga gcgataagtg tgatgatctg cgcatgaaat 180
 gtgagagaaa ttgtttgtag atatacgttt agaatgcaat gattccggtg ctgtaatgga 240
 tacactctgg cctatccgag tagcaactat atactgcatt gattgatcat ggttcgtcaa 300
 ttataccagc cttatcatgt gcaccccgat ctttctctat aatgcctcaa tggacttata 360
 gtgccagcta tggatgattt gaatttcaaa agacatctct cttgcataat tatcactacg 420
 aaagcgcgag accctcacgt agaatattaa ttgatactc cactactgtt gcctgcatct 480
 ctgaactaag gttcgagagc atatacg 507

<210> 27027
 <211> 199
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27027

gggatcaagg gctttatttg tcatgtcttt gcaaaancga agcaaatggn ngaaatccat 60
 ggcttgatga aganacgggc tgtatggagg ccctagccta tcctagacca actataatgg 120

angaaggctt attcctcatt ttaatgctaa aatgtgcccc ccaaccatta aaaaatgcct 180
aagaccatgc atggtgtga 199

<210> 27028
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27028

nactttacta cgacacgtag accntctgng acacatagag ccctccgctc tgcatactat 60
agagtgcacc gcgaagcgat gctatcttcg actgtgcaaa gagcaaaaana gatctcctgc 120
ttagatgaat gagaaaggct tgtcaattga tgataatgat gagggaggag gaacacatgt 180
tgtgactact attcttgcac ggggcataat ccttctatca cattatctca aatattaaac 240
atctgtgaca tatatcacta ctcttactcg ttagcaccac ccgcgcctc atctcatctt 300
ttgtgactgc tgtaaccata ctcaaacac accgcctgcc agacatccga tctttgacac 360
gctccaatac tgcctccatg ggcggaccgt tcctctgaaa acacctattg tgtgtacgcc 420
agttccagtg ttctatctca ctgcgtcata tatctactca ctattcattg gtaccaaga 480
ccgcaccaa ggttgcacaa cctacatttt tctatgactc acatcgacg 529

<210> 27029
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27029

gcagatttag ttntcgccgg ctaaaggatt gtttttttnt tataagaggc aaatttggat 60
atcctgcttt gatgaatgac aaagctacgg caaatgaaga gaatgagaag gagggaggaa 120
cccattgtgt gactaccatt cctgcatggc caaatctccc accagctcca caatatcaat 180
actctgcaa tatcagccct tctcattacc caccaccaa tcaacgacaa aggtcatccc 240
taaatacagc acatagcccg cctgccgcac atccaatacc aaacacaaac caaaacacca 300
accaaggaag gaattttcca gcgaataagc ctatagaatt caccaccaatt ccggtgtcct 360
atgctaactt gctcttatat ctactcgata attcaatggg agccatgac 409

<210> 27030
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27030

tgggtgatgt tgcgcgtact gatgggtacc atgatgtgtt tgctgggggtt tgacccacgc 60
 ggggtgttgaa gagacggcat gggcatctcc ttccttcctt tttgcccctg ttgccccgat 120
 tcttttggca ttgcggttgg tggaggaaat gtaatcaaac tttcctcttt tcaatccaac 180
 ctcgattctt tccccggcaa acaccagatt cgcaaagctg gacggcatgt aaccactag 240
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
 catgggagga gctacttgtg ccgccaaatc cctcaatcgc tgcgcatatt ctttaaaggt 360
 ctcaccttct ttcttgaaca tattctgcag ttgagtacgg tcangagcca tatcagaatt 420
 gtactgatac t 431

<210> 27031
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27031

gcgactatgc actacgtgtc tctgtacttg tacgattgac tctctactct gataaagatg 60
 gctaaacctt atttgccgta atgaacaaga agacatgtaa ccacttgatt ctctacatg 120
 agatgcattg anaagtctgt agctggcgcc tggagcatct gattgatgac tcatcagagt 180
 caataaagat gattatacag tactcgatga ggaccttaag aacttatcta ttcgacaagg 240
 atatgcgtgt ggtcatgtgg ataatgtcga caa 273

<210> 27032
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27032

gtagccctca nattgtagtt ctacttggcg cagataattg ttatgaaaaa gatggcaact 60

atgcaccaca tgtggctaga atagttccaa ttcccagcac tactctttat gatagcaact 120
 caaacctcat cagagcataa agaaaaagaa gacataaaac caagtgtcgc acccacatgg 180
 tttgcattga gaagtctgcg gtaggagcca gaggcattgc attgatgttc aatcaatgac 240
 aatcaggatg aactagatt aagcagcagg catcttaaca tcttatctag attacaagga 300
 taagtttggc atcatgtcga agatgccgac gacaccacat gtttagttga gttggttgaa 360
 taaagcgcta aactccttgg ttttgtcttc aattgtgatg gaaa 404

<210> 27033
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27033

gcagtcgca tgcgttcttt tagccactat agaggtctta ccatggctta ngcatgccaa 60
 atggctttgc tgataattaa ggtcagacga ataccttgat atcaagagac tgaggagcca 120
 gtgctcacgc cggatgcgga tgactgcgat ttacatcata cttagatgaa gatcgtgaga 180
 acttgtgctc ctcttttcat cctattctca atgactatta tatgtgatca taaacctgac 240
 tcaatttgcc ccgcatggcc gtttcacgag agaactctgag ccttcgacac tgtctgatgc 300
 ctatctatga acaatttcga tctgatagat cagcactata tccgggtccat agacaattgg 360
 gacgagaaga c 371

<210> 27034
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 27034

gttatatcct ataacttggg gcattcatat atgttctttt aattactaaa tagttcaatt 60
 caatgtctaa agagccgaaa tttcttaaat gaaaataagg gacagccgaa aacgtacctc 120
 ttaagaattt gttttgaaag tgctaacgtg ggttggggat agatgcgttt aattacatcc 180
 agaaataaag attgtgagac catgtgctcc tctttccagc tttctcttta ggactttatt 240
 atgtgatagc gaactgactc agtttggttt tggtgttttg agtcacagga gaatctgtgc 300

attcgagaat gtctgtggta gatcgataaa gaatccagat caagtaaaaa agaatatatc 360
 caaacgaagg ctaaagggga cgaaattctg aatgaaatgt gggtagcgat gtctatatatt 420
 cctaattata gggaggatct tggttctact ta 452

<210> 27035
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27035

gggttttgcc tgagcgtgct ttcggcattc acttgactgt gtacttaagc tactgggtgca 60
 tgcagcttta gcacatcacc gtacccgcgc ttattagctg agcagaatgg ccgtgggcgt 120
 tagccagata agacctgacg ctacttatga catccttctt ggacgaagaa tggctacgct 180
 gagggcaggc taaactatga tccatgcacc tatggatgcg acgtgggacc atacactata 240
 tctactctcg acgtatggct ccacctgtgg ttgtcttgaa tgttattgag cgcaccgatc 300
 aactgtcgc aagcatttct ctctacacgc atagcctcta tacatggact ctctgctaga 360
 tcatactagt actggccaga cacgaatgca aagcatttgc ttcatatgcc actatgacta 420
 ttatccttgt gtcgaggcgt accaccgaca tcatttcagg agtccaacn 470

<210> 27036
 <211> 210
 <212> DNA
 <213> Glycine max
 <400> 27036

ctcagccgca gtaatttgct tagcaaatg gctcatccg tgtagagcaa gatttagaga 60
 gcctggctca acgaggacga caagctgacc gaacaagaaa tgctggaggc taggctaagc 120
 gatgatagaa ggctcagaga gtacgacgtt gagagcatta gaccgatatt tgactcaacg 180
 acatcaagag gctaagcaag tgcgtgtatc 210

<210> 27037
 <211> 255
 <212> DNA
 <213> Glycine max
 <400> 27037

gcaatcctga ccctctaata ccaattgata agaaaggggc ctctcctatc ttagagaaaag 60
catggttgaa ttgagagaca ttctcatca cccaatggga gatagcactc tctgtttatg 120
aattaggaat gcatggttga tcctgatcac tgaagcgaca gtcctgtgca gactgggtctt 180
tttgaccaag atgtatctca gcaattcaga gatgtctcca ggtgaacaaa atgcaggctc 240
accatgacct ctggt 255

<210> 27038
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27038

tcctgattca ccataattct tgacctatgg tgagaatgtc aatccttacc ctggaaggcg 60
aactgaagag aaaggaaaat ttccaatcta agagaaagca taaagaaaag agaggaaatt 120
cccaatcaaa gaatgggaga tagtaaaaaa ggaagaagaa aaaggaacga aaggaatttc 180
ctgatcaaag aagcagaaga aatgtgcaga aagggtctttt tgaccagaca atatctgac 240
aatacagaat tgtcaccaaa tgaacgaaag gaagggaaac catgacctaa agtgggtcttc 300
tccttttgat taccaaccaa aatcctgtgc gtcggcgact ttttcacccc gactataca 360
aaaacaanaa aggaaaaagc cagcttaaaa tctaaagcca aagacacac 409

<210> 27039
<211> 324
<212> DNA
<213> Glycine max

<400> 27039

aagactctag cgatgatgct catacctctc taatctctac cctcgccggc tggatatgag 60
gagcttgagc ttacctgagc gatcttatga cagctacttg tcaccgatca tagactaaca 120
tagggcttcg aggttacagt aacattaggc gtccttacta caacacacta ctcatgatgg 180
cctataaaac tatgtttata tcctatacta ggggagtggc caagacacaa cgtctttacc 240
tataactgac acctatacta acatttactt agatctacgg gtcatgttta ctccatgggc 300
tcgtgatcta ccctatcgct catg 324

<210> 27040
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27040

taggctaaat tagtctaaac ttttgtaagc tattttatattt atttctattc caacaagagg 60
 aaatctgagga tgaagcttag ttttaagttag tctaaaccaa ggagggctgt ctaaattgag 120
 cctagtccaa caagagggat ctgaggacaa agcttggatt gattcagtct aactagggat 180
 cgaggtttag taacttaggc tacaacatag aacacaaaag catgattgat tatagaaata 240
 tctttatata catcagttgg tctgtagaa agaccaaca tctttaccta ttactgtcaa 300
 ttttagttac tttccttttt tactattttt agcctagact aagttaaatt ctgttctaaa 360
 tcatcaatta tcaatgtttc tttcaacaat gccttattta tgaatntaac cctgtctaag 420
 actagatcca tgagtttgat actcggattc atcca 455

<210> 27041
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 27041

tgatacaagt acacaggact tgattcgacc acgccctact agagtccatc tgggacatcg 60
 tcgagagaat gattgtcccg atttttagac tgcgagaata acgccctacc tgactatgat 120
 gactactaca tccttaggcc taggctctac acgcaattag ggaggcgcta cgtgcatatc 180
 agctgcgaca ctgagtgtc tcaggaccgt gttccatgat gatcctactt tgctcaccat 240
 tatcatgcgt ccgtatgtgc aattctacac acttgaatcg acggatccta gga 293

<210> 27042
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 27042

tgatgatcca cgtacgttgg atttgtgtcg accatgccct actgattgcc acctgggaaa 60
 acgtccagtg gaggaacaca ccggcttcta cgctcgagc ccattgaatt actataccat 120

ggtgaagaca ctataaatgc gcctaggctc tacactatct tgagaaggtg cattgcgtct 180
 tacgttatga acaaatacta caaggatcgt gactccatct gagcctacgt ctctaccaat 240
 tctcatccat tcgcatgaat acttctctat atctgaaacg acggatccga cgacgagtac 300
 gccgaacaga ctaataacctg cgacccgcct atcagcttcg cgcatgagac gactcacacg 360
 gtagatgatg ggaacgagga tgagaga 387

<210> 27043
 <211> 190
 <212> DNA
 <213> Glycine max

<400> 27043

actcgtcctc ctgcttttatt tgggggcagg gtgctcgccc agcaagctca gatcgccgca 60
 gcgagcctcc ctgcctttcc gttatggggc agacccttgc gtggtacatt ctctttactt 120
 gttttgactt gccgattgta acctacctct gctataatgt gcgcctaggc tacttatttg 180
 attaccggcg 190

<210> 27044
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27044

tgccacccag ctgcccagg cgagcaaggt tacttccttc ataagctaca gccttctgga 60
 gggcccaagt gggcatggtt gctatttgca ccccatnt tactaaatac accccctgcc 120
 ttttttttgt gattcttttt tcgtaaagtt acggaaactt atgaatttcg taacgatact 180
 ctgtttcttt ccgtaatgtt acggaacctt gcggattaca taatcatccc tttttttgac 240
 ttacggaatg ttacggaacc tctactatttg tgcaacgatg cttccttttg atttccggtg 300
 tgtcacggaa ctttacggat tgtgcatcaa ttttttcttt tgatttcggg cacgtcacgg 360
 aatttcacat attgcctaata gatgggtgcc aagcacctca naatgaccaa acaaaagtgt 420
 cattccacca agcataggtc ctcggacaaa attatggtat gaca 464

<210> 27045

<211> 114
 <212> DNA
 <213> Glycine max

<400> 27045

tagcatgctt agctgcggta tcgtcctttg attggctcat atatgattac atattcacat 60
 tacttgattc tagagagggg agatttggtg gttaccttcg cgtcggtatg atac 114

<210> 27046
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27046

tagtctgtga tgggaaaatc aatgggtcaat attccatctc attcataagn tgttatgcat 60
 taacatatata tatcgattca tcgttatgga ttatatatga ttacttattt cacatatact 120
 taattataga gagggagaga ttaaattggat acctttgagt ggtatgagac ctttatcaaa 180
 aagagaacgg tagtgcaaaa tagacattaa ggcacaagca ctgaccggtg aaaatagagc 240
 aataggaagt gaaagttctt cagcagcttg tatagtaaaa agcatggaac aatcagacac 300
 caagcaagta actggaggta caaagccagc agtggaagaa tcctgaagac gagcaagaag 360
 atcgcgaaag ggtacgagca tcttctctct cactgantta gcaagagaca ctgcgtcttc 420
 agtgacatca ccataccat atgtgggggg aagactatct ggtatgg 467

<210> 27047
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 27047

gccgcatgca cgctttgttc agaggatcat gtcctcctag gcacttgtga cgcttatgag 60
 tgaccatcca tggagaaggc agcctactta gagatggact cacctaggcg atgaccttgg 120
 ctgtaccgat ctgttacaca tgctacactc tccgatggag ggccctctgt actacaagcc 180
 ttggaaaatg catgacttac ctgcggagga ccttcgatct gtcagcttct tggttatgtg 240
 gaacttcctc acgctaacc tgtgttcgag gcccttttgt aaaagccttt ctgactggcg 300
 accatcctca gtgatgaaca tcctacgcgc gactctatgc tgaccacagc tagaccgtgg 360

a

361

<210> 27048
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27048

tttaagatgt gctcatttgt gtaaacaaca tctacatatt gtatgtagtt catgttcacg 60
 taaccacaag taacaataat gtgtgaacat ggatagtga gtcgagaata ctttccgtat 120
 tgacaatagt ggccattcaa gttaactgcc cacttttgtc caccatgttg cgttatagga 180
 ttgaaggctc cctctacttc aaaccttgtc gagtggatat catagatgca gacaatgtgc 240
 gaacaagctt gttcttaatt tttttgaagt tcttaacctt acaacaatat acttgtccta 300
 catttaattg tctttgggct tggcgaccat gatcaataaa gtactttcga caccgactat 360
 atgttgattt caccaaagtc gttatgggta tgttgcgata atccttcaat accttattta 420
 cacattntga gaggttggtt gtcatgtgat catatcta 458

<210> 27049
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27049

cgaggggatt gatgctatcg atagatcctc ctgngacgat atacgagctc tcgacctcga 60
 tgataactcgt gctatcgaca cagcaggcac gtcttgcttg gatntcatat ancaaaagcg 120
 aatctagtga tggactactt atgtgagcca aacatcaata ccggctcatt ctaatactac 180
 tacctactgt ccatatagac gtacctcaaa ccgcattcct tagaatctta acactttgca 240
 gcagctaatt gacaaactct agacactcta gtgctctggt ataaaggat aatagatgaa 300
 cttcgtagcg gaatgaaacc tataggggtt ctggcataga acacatcaac atgcctattc 360
 tagtattgct acgtggtgct ctccacacat gttgctgagg ctggaaaccc ctgagagggg 420
 ctcacatccc gcgacatcta acgtctatcc gaacacctac tcatggacac gtcatatctc 480
 agactggata ctaggtcgat tacacctagc attgactcac tttacg 526

<210> 27050
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27050

tgatgaagnt gtgctatggt agaaagggtac attatcttaa atttcataaa caaaatctat 60
 caagtatgga ttctttctta gtaaacaatca gaatggctat tctaataata ctacataatg 120
 ctcataagaa aggttcctca gactggaaac cttagaattc aaatagcttg gagttgtgaa 180
 gtgtaaagtt tgatgaagct gtgctatggt agaaagggtat attagtttaa acttcatcaa 240
 caaaatctat caagtatgga ttctttctta gcaaacaatca gaatgactat tctaataatta 300
 ctacataatg ctcaccagaa aggttcctca aactggaaac ctcagaatgg ttctgaaagt 360
 tgtcaactca tgacatctat caagtccacc tactttgtga cacctcanat ttcaaactga 420
 aaatattgta tganaaact cttaatttaa 450

<210> 27051
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27051

attatgcatg taggnaccct gagagcctag actctgagct gtgatactta gagggaccag 60
 ccgcacgcat gcttgtctgt tatgcggacg aagacgatcg ataccagtcc acaggctata 120
 tcatgactcg acgagtgcaa tagatagaga gagtatcacg atgaccttga gatgtatcat 180
 gctaataaca tgcactctgg ctgcaacgct agaaccgccg cgtagtcata ctgcacctcc 240
 acacgattag gtactgcatc gccgaatcgc cagaaacacc aggaggccga aagagacctt 300
 cccgcaggat atgctggcct gcacatatga ctgcatctca ccttataggg atcagtctgc 360
 agcactacat caggcgatgg agtccgtcct ctagcagcag tcctactaga ccgtacgctg 420
 accagcagtc cttccgctac gactgctcca aatacggcca gccgtcacgg gccgactccg 480

<210> 27052
 <211> 361

<212> DNA
<213> Glycine max

<400> 27052

tgtacttgtg aggcagggcg gccttcctac agctttgttg tattttatgc aaacttcgac 60
catcgaacat ccttctcaca aggttcctta tctgtctgc ctgaatgggc ttatagcttc 120
aaaccataac ttaacaccga ttacacttga cgatatatga tcgctagata tgctcccggtg 180
gcattttcct aaaaccatgc cgagatctaa accgcacccc cacatgactc gggccatcat 240
taccgctgca tcagacacac tgcgcggcgg atagagggag atcacgcacg aaatggtgac 300
cacactagca tgactgataa gctgtctata acgatttctc tgctgttcct acataatgca 360
t 361

<210> 27053
<211> 122
<212> DNA
<213> Glycine max

<400> 27053

cgacacatat gacggtacag atccatgtgt ggatgaatac tgctcaaata ttctaccgat 60
attgagatgt aaaaacgaga ttgcaactat agatgctttt ctcaatatta atacatccgc 120
tc 122

<210> 27054
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27054

tgcacaaggt tataccctcc ctctcact ntgtttgtat ctaacacatt ctcttcaaga 60
catagtacta acttcctac attttcacaa cttgtagtgc gacaaagatg acggaagaga 120
accatgggtg gatgaatctt catcaaattt catttcatta ttgagatgta aaaaagagat 180
ggcaactaag gatgctaatt aatttatatt tacattgtct ctctatttgc gtatttgtaa 240
tatacttata tcttacagtt tataaagaat gcaatgactt ttgaactttt gggtgacatt 300
tattcctact gagtgtgcaa ctagcaaacc aaaactgttt gaaaatatc taactgctta 360

tgttgatatg tccaaggctc acacgctgtg cttcttagct gatactatat tgtgtgaagc 420
atcaatcatc attacgacat agaagactgc actcactatt 460

<210> 27055
<211> 258
<212> DNA
<213> Glycine max

<400> 27055

atatgatgac cacactatag gcaccttgag atctgtcacg agggtcacga taccttgggg 60
acggcacgtg tgatgctgat ctctaact tacctcgtgc attaccaaac ccaccatccc 120
atactttact catgagctcc tgcgatgcac ctcaacgccc tagctgcttg gactgaacat 180
atgcccgggtt ctcagaccac ggcacgacga agatggaccc ggcttgacga atatgaactt 240
taagaggact atgacgtg 258

<210> 27056
<211> 458
<212> DNA
<213> Glycine max

<400> 27056

tatccatcca gacacagatg caccatcgcc acctctatat catcaccatc tctagagtcc 60
atctctgctc acatgcagag tatggaactc tatatgcagc atgtggccga ccagcaagtg 120
gccaatcgta agggtcaggc acaattgaat gagagctttt acaattacac cctgcatcag 180
tagaccagg atcccaatcc ttactcatgg cctactccca agcagttcga ggccataatt 240
gcatggcctg gagataggcc caattttcag gcaagggcat gaccacagg gacccccgtt 300
gatgaagatg aagctcacga agacgatgac atggtcgatg tgatggcctt cttcctttga 360
ggaggatgag ccgcttgact atgatcgctg aaaactatga actcatctgt attttagttt 420
tatcgctctc agtatctgtg tgtatctcat tgtgatgg 458

<210> 27057
<211> 233
<212> DNA
<213> Glycine max

<400> 27057

tatttgtaag gctacgcatg agcaaaggac tcatacaact ctgacattat agtgtgcgac 60
 ttatagcaac cagactttac acgagagacc ttctacctat gcttggatct atagacatgc 120
 gctatataag ccttggatgg atgggagatt acgaatatga ttccgtagtc acatttgcac 180
 gaaacctggt cggagtcttc ctgcgacat gacctgctac atcgtctttc cct 233

<210> 27058
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 27058

tatcttgatt gaatgtagca gcaaacttga cgatatttct aatttttcat ttctgcaaag 60
 gactcatcca gctttgacat tatagtgttt gtcttattgc cattaaatct tacaggaatg 120
 tccttttcca taatcaaggt tttagagtta tacactctat atgccttgga taattgagag 180
 tatccaagta agattccata atcacatttg gagtcaaact cttcaaagtt atccttggtg 240
 ttcaaaatga aacgttgaca tccaaatggg tggaaataag aaatattagg cttacgttcc 300
 tttcacaatt aatagggagt cttctttaag attgacctaa tatagactct gttatgtaaa 360
 aaacaaacag tgtgatcgag gccgtaccg aatcatataa acatgataat gcagtaacta 420
 ggaagtgatc ctatgtcgtt tcccaacgag cagtgc 457

<210> 27059
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 27059

ttctaaacta ttattccttc atataccatt catttatcaa ttatggttct atccagaata 60
 aacatgaagc tgtaatggac taaagatata tttgggcctt gttagaaaat attcacatat 120
 tgatgttcat aagataaatt tatga 145

<210> 27060
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 27060

tatcaaataa ggttagtcca agtaatttct aacaattttt agccactaga aaaaaatcac 60
 tacagaatat ttgtaaataa ttaaaaaaac atattgtcac atcacgattt aataaagaca 120
 tttaatgcca aggactaaaa accaaacaaa aaaaattgag caacaaagac cagtcaaata 180
 ttaattaagg tactaaaaag aaaaaacatg aaaagttaag ggactaaaaa tatattttgc 240
 ccttggttaag aaatattcac atatttagtt tcatagataa aaattaattc taaatctaaa 300
 attattttga gataaaactt agtataacat atgttatcca acgtaaaagc tatttaatga 360
 ttatacagta acaatgtaca ataggttttg tcgacataac ccaagcacac 410

<210> 27061
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27061

ntgatctatg atggatgctt ctacggcgaa tcagctcgag ctgggatact gtcagtcgac 60
 ctgaagcgtg catgcttttg caatangaaa gctgggacca tcatcctact atgacgactg 120
 anaaaactgt agctaataca ggtgttgaag accatagaaa aaccttatgc tagtgactag 180
 acaattgogt ggccatgtac agagctatca ctatcgcacg gaccaataag tgcgaatata 240
 ctccatgaaa tatcttacgg tgctgattac cgagcatgcc attatcttgg actgggataa 300
 ctatatgaga cacacttgac gtctatcgca cgtacgatga cgaacacca ttttaatgga 360
 tgcctattgg cgaaccagat gtgaatcttg ctctagattc ctgtcaatat actgagatac 420
 tatctatgat aatgctgcag actagggata ctactgtat tgtactctag acagacatca 480
 tgtggatc 488

<210> 27062
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27062

ntgcagaatt ggccttcgcc agtgaaagga tcaatgttgg tccgaaaaga gcaaatttga 60
 tcatcctact aggacgactg agaaaactgg ggcaaataaa gagggtgagg atgaaggaga 120

aacccatgct gtgattgcca ttcctgtacg gccaaagtttc ccaccaaacc caacaatgtc 180
 attactcagt caataacaaa cctcctcctt acccaccacc cagttatcca caaaggccat 240
 ccctaaatca accacaaagc ctgtctatcg cacttccaat gacgaacacc accttttagca 300
 caaaccataa acaccaacca agaagtgaat tttgcagcga gaaagcctgt agaattcacc 360
 ccaattccag tatcctatgc tgacttgctc ccatatctac ttgataattc aatggtagcc 420
 ataaccctag ccaaggttca tcaacctcca cttttctgag g 461

<210> 27063
 <211> 131
 <212> DNA
 <213> Glycine max

<400> 27063

actctatgag caacctgagg catgctagct tacattgtcg aatttggagc gtggcgggcat 60
 ctgatgcgcc tgaatgtgac tctcttgtga ctaggatgta ccattcgagc acatactaga 120
 gctgacacgt g 131

<210> 27064
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27064

ttcactcgga tgtccgattc angcgcataa tatatcttat atgttttata attgaacaat 60
 ggaagctctt gagcaattca aatggtcata acttttctact aagatgtccg attcaggcac 120
 ataatatatc gagacgttcg aaattaaaca atggaagctc ttgagcaatt ccaatgatca 180
 taacttttct ctaggatgtc cgattcaggc gcataatata tcgagacggt cgaaattgaa 240
 caatgaaaga tcttgagcaa ttcaaaggt cataactttt cactcggatg tccgattcag 300
 gcgcataata tatcgagacg ttcgaaattc aacaatggaa gctgtcgaga aattcaaag 360
 atcataactt ttcactagga tgtccgattc aggcacataa tatatctaga cgttcgaaat 420
 tgaacaacgg aagctcttga gcaattcaca tgatcataac ttttctcttg 470

<210> 27065
 <211> 282

<212> DNA
<213> Glycine max

<400> 27065

caccacgaac atgcgcacgt cctcctggag tacatccacc gatgggaact tgtacacggg 60
agcggatatat attaatctta ttttgctgct tcaatctaga gcgggatcct gactgaccgt 120
accggacata tattcggcaa ctatgacaac atgctagtgc cttggcctat taccgttgta 180
tgcgtatctt tacttacatc ggaaccacca ttgtatgttg ctacgggaac tattgccttc 240
cctagagcag aaggatacgg gacatggatg actatatgag gt 282

<210> 27066
<211> 436
<212> DNA
<213> Glycine max

<400> 27066

tactcacgct tctagattgg tgtaccacgc cactactgct ctgggtgtct ttaagaagtg 60
cattaacagc ttttcgttcg tagaatatgc ccccatcctt cggcagtaca tccaaagatg 120
acttttttga cagtcgtcc ctttatatct atcaaaatct gatactttaa acttgggagg 180
gataatgatg tcaggtacca gacatagatc cgccaaatcc gagaacggat aattgccaag 240
gccttctacc gctctcagcc tctcttcaag tagatcaatc tttcccttgt cttttgcaaa 300
gggaacgagt tccttatcag gtgcggaagg agacgggacg tggcggacta tgtttggttg 360
gggcaactca ttacgggctg gttccttgag gggaagtaga ggacctaaat gggcatctcc 420
ttcatcatct tcttgc 436

<210> 27067
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27067

acctgtgcag caaagtcaaa ctgcttctac agaaactaaa agccttggag aattctatgc 60
cagctcaacc ttctgaacaa caagtcaagg agctcaagaa aacccaagct gacctttggg 120
aaaaagctac tatgcatgag tctatttgta ggcaaaaatc aagatgcaga tggatcaaag 180

agggggacag caacacagcc tattttcata gagttattaa tttgaggagg aggagaaatg 240
 ctttgagggg gatgcagata ggtgacacct gngtggaaaa tccaaacatt atcaaggctg 300
 aaaacctgca ccattttcac aacacggtca atgacactca ctcgagctga cctaacctgg 360
 atgggggttg atttaaaact ctgact 386

<210> 27068
 <211> 177
 <212> DNA
 <213> Glycine max

<400> 27068
 cctatctgat gtctgttgta agaaatgcat gatcgtatgc acagactaac gcctgcatgt 60
 gtgaccttcg acaggcttct tggacaagcc cgttgacctg cggagaccta catcatctac 120
 catactgacg cgatctgtac tgctgacgct atagctgtcc taaccggcgg ccctact 177

<210> 27069
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 27069
 cgatagcacg caaagactaa cgttctcttc tgcgcctatc gttaatctcg gacgacaagc 60
 accgcgacac gcggagatat acatcatctt ccgcgctcac aagatctgtc atactgacat 120
 ttgagtctcg ctgacgggcg gaaatacccg agtgggtatc cgtataaaca ttcctttttg 180
 ctgtctgtaa gaagaaaagc atgattgcat gcagagacta acgtcgtctt ctgcgacctt 240
 cgtcaatcgt ggcggaacaag cccgttgaca tgcggaaatt aacgtaatct tccatgctca 300
 caagatctgt catacagaca tttgagtcac cctatcaggc ggaaataccc gaggggctat 360
 ccgtataaac tttatttcgc tgtttataga cgaaaagcct gatatgacgc ataaacacac 420
 ctctgtctct gcacgcctcg ttgatcagag actacaagct tggaga 466

<210> 27070
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27070

nccggattgt gcatcgctgt acggcaatca gcctgacctg cgatctctca gcgatctgcc 60
 ggatgctgct ttctacaact ctcgacagtg cgggctgct taccgacctc ctccaactta 120
 gagagactag catattgcta cgaagagagt gatgctatgc aaggatgggt agagacctag 180
 tgtgcgctcaa tacttgatta tagactacta ttcattctat gaccgctgc atagacctga 240
 atatgaatgg gcatcttaag atcagaggaa tcttcccatc ttcgattctc gccaaagatca 300
 ccatattcaa cggaaacgtc attggaagga ctctgacaat gactaatatg tactcgcttg 360
 taagactcgt gatattcaga ccgccagtgt agcgtctcgt cgtaaggctt attatatatt 420
 agcgttgtag tatgattgac atgagcctta tgtgatcttt gtctctaaag caacgagagt 480
 catacg 486

<210> 27071
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 27071
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 agtactgggtg tgcttcacga cggcaacgaa cttagagaga caagcttaac ggtacaaaat 120
 gagtgaggta atgcgggcta gggcacaatg cgagtatgca agagaaaaag atgcgaatct 180
 acttcacatt caaagacggc gtgcataaaa cccgtctttg gataatgtag tccaacaacg 240
 gcgcatggca cccgtctatg taacgcgcag ataacgccat tcttaagatg gacgttattg 300
 aaataagagt cttaatgagt aaaacgccac cgtctatcga gctcatcata ttcggaacca 360
 ccgatgttgg caacgcgtct gacaatacta ttattttaga agtgtacgga ccat 414

<210> 27072
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27072

gactaagtgc tcaccaacac tagataagat tccttcatgt tgtttcatgt aaacctcttc 60
 ttctagatca ccattcagga acgccgtttt cacatccatt tgatgcagct caagatcaaa 120

atgagctact aatgccaaaa ttactcgaag agagtctttc ttagatacag gggaaaaggt 180
ctctctgtaa tcgattcctt ctctttgagt gaatccttta gcaacaagtc ttgccttatg 240
tctctcaatg ttgccttctg agtctttctt tgttttgaag acccatctac atccgatggc 300
ttttacacca acaggcaact caactagatc ccaaacttgg ttagatgcca tagaatccat 360
ctcatccctc atagcatnta taccacaaat tgattcctta gaactcatgg cttatgaaaa 420
cgtctcagta tcantttccg ctccaatggt gtagtctgat g 461

<210> 27073
<211> 161
<212> DNA
<213> Glycine max

<400> 27073
atcccacatc tccttgatga aggatgcttt tggaggcctg atatttatct taggtactgc 60
tagcatggat ctcttatgac gcatgatcat atttggctca tatgcttaca ctcaccatat 120
acctattgat cttatgaact ccatacatgt tactattact a 161

<210> 27074
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27074

tgagaattgg attgacctgt gctaagttgc caaatattta cagagttagg cacagtatta 60
ttacaatcaa cagaagaaac agtattttata caagctggag aagacacagc agagcagaac 120
tgaagattgg gaaactggta caagccatca gatccaacat ctcttgaag aaggattctt 180
ttggaatcct gatatttaac aaagcaacga ttagcatgaa actcaaagaa aacatgatta 240
tctttggcaa atttgcttac actaattaga ttcttagtga tttgaggaac aagaagcatg 300
tttttaagaa taagttggcc attaggactg aaaggagaaa caaaattgga attaccaggg 360
gctgagatat tcagaccttg tccgttacca atnttgatct gatctggacc ctcaaattgga 420
caag 424

<210> 27075
<211> 518

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27075

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cgcggtttgt gcgtcgtgct cntcggacat atcagcctga gctgggatcc tctataggcg 60
cctgcaggca tgctttctta gcgcttcgat gatggagcgt actgagatct gtggagcana 120
anagctgcga ctctccgcac gcatatggct agttaagggt gagcataaca gggatgcata 180
ggcgattat gtcataatcag aaacgaatat gagggcgcca cgattgttca ccgttactct 240
cgcatgatga ggcgctacac gcgctcgaac tccagtgtct ggccgaaata gactcagtgc 300
tcntgagacg cgtgactcgt acttaggaca cagactaatg gatggtttat gggttgtgca 360
tgtcgcttac tcgaatgcag atcgaattga ttccggatta acgctacagt ggctagctta 420
cctgtacact acagcctgag acgcaagggt cgtgcgctaa gcgcttaaga gtcgtggctc 480
ancgctggag cgcaatatgc gcttagcatg acgatcgt 518
```

<210> 27076
<211> 435
<212> DNA
<213> Glycine max

<400> 27076

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gtctagctct tcattgggtg attgagagct ccttttgttg ctctaaattg agggagtgtg 60
ctcaaatata tggagcaatt ttgattcgct tctcgcctcg attagggcga attaagggtt 120
ggcatgagat ggccctatgc ctataatgca ttttgaaaca ataggacatg ccacattgtc 180
cccgttctct cgctattgat gcctaaacgc gcgcccacca agtggttcggc gaaatgcctc 240
attgtcatta gcgtgtgact ttagtaagga gacagaccca tgggtgtatta tggtttgtgc 300
atattttcta ctttcatgga atatgtattc attcccga aaaggctagag tagttgcctc 360
acatatatac tagtcctaga aactgaaagt tatgcacaaa acactaaaaa ataatacgcc 420
actctgaggg gcata 435
```

<210> 27077
<211> 549
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27077

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ccgcgctatg atcgacgctc ttcgngccta tcagcctgag ctgggatcct gtatagcccc 60
tgcagctgcg gcttcgatta tagtgatatg taaccgccct acagcgcagc ttgagagagc 120
ctgtgtagtc agctggagaa tctcagtcctc tgagccactc gagagacttg atataccatg 180
cctgatggat acatcagagt gactgcacag tagtgngcac actncgtatg gaaaacacta 240
ctgtgatatg atgtaacctc anagaaattg ctctcggaca gagcaactat acagcgtacc 300
ttcagctatg aagatttgag tgggctatta taatggcatc tatactagaa ctctagcata 360
ctgacatgag acatggaatc atgactgtcc ataagcacga tgtctggaga cgagctatga 420
gatagacgta ngcctttggc atcttcgata catccgtcta gcgacactga ctgcaatatc 480
ttggccctca atctgatagt gcacagaaga tgctaagact ctctggcgag atacgagcgc 540
tagctacan 549
```

<210> 27078
 <211> 456
 <212> DNA
 <213> Glycine max
 <400> 27078

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gtaagattgg aattaaaacg ttcagaaact gctggtgttc gattaccata tatatgtaat 60
cgattacaca gtgcaaactc tgaattcaaa ttttaatagc tgttgtaaact cagttttggc 120
cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaactc tcttgaaaaa 180
gactttcttt taacttaaat ttcttggtca aaccttttgc tacttcaatt ggaattccct 240
tgctatttta tgtaatcttc ctaagactct agagactgtc ttaatcatcc atcttgaata 300
tcttttatct ctttgtcttg aataaaaactt tgagaaacat gtaatccttt ggcacatca 360
aaacattcag cttgatcctt tgtctacata tacatcgctc aaatatgata atatcataag 420
tgtaaagaaa ctatggctga ttcgtgcgct acctac 456
```

<210> 27079
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 27079

ggttgtggtt tgtgcctctt gtccttaggc gaatcagcct gagctgtcga tctattgagt 60
ctacctgcaa gcatgcatag cttgatacac tcctatctga tcanagatga tccatagagc 120
catatacgga ccaacatgac atgcaagcct cttgacaggc tatcaatact tagcggttcag 180
ctctagacct atacgagaca tggtcaagga tgcgatccat gataacaact actgattacc 240
tggactttgc tttcgactg atggatcctc cggcctttac tctgtgtgct tctcagcccg 300
gcgtgtgcat ctgctccttt gatgactctc tatgcgaaga agacacgaga gcagaccaga 360
tcgctcgcta cacctaggat caccatgctg agtctctcgc ttatggcatg aggcactcac 420
tcgatcaaca acgcggtgac gttacgtang agtcttgatt agcccaagcg agctggttga 480
tggactgaga gaatggcn 498

<210> 27080

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27080

ntacgaacaa aatgaaatca ccaataatga gtagaaatga ttcatacata tataaaatat 60
caaaagagat acataagggg acaaagatta catccaatcc ttttgagaag ctatccaatc 120
attgcataga gcacaagatc aacaagagaa atgatgaagg atgcgatcca tgatcacaac 180
tttgcagcgc ccgggcttca cttttttatt ctttcttcct tctgtgttct tcctctggct 240
tttctctagt cttgggtatgt ttctctccat cctttgcatg gctttttata gaaaaagagc 300
caagaggtgc agaccaatth gctcgatcga gctaaacaca ccaggtgag tttcttgctt 360
agtgtgaag gcactcactc gctcaagcga gttggttata tatgcctgaa gaaacttgat 420
tagcccaggc gagctgattg ctagcctggg tgaatggatg . 460

<210> 27081

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27081

gctcatgcaa gcttcgcgac ggcggcaccc atttaggagt gtccctacat tcctgttcgc 60
 tgctccatga gcatgttact ctattgttat atggctctct atgcatgacc gatatatctc 120
 gatggcgtga ctcacacca tctatcacga ccttcttct atagcctgtt catagaatga 180
 gatcccatct actgtgtata gatttataga gtgggactcc actacttatn gatgcacact 240
 aaaatattta catcagcaca tattcctagg ttcttatttc ttagagcgcc ttgtntacag 300
 atttgctcta ttaagagata tacttc 326

<210> 27082
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 27082
 gcattataga atatatgcgg caatcgtgaa agacacatag gactagacga ctctaattgct 60
 gcatattcca tgggaatctt ataacgcacg tgtactactg atctgctgcg agaaactgta 120
 actacattct attacctaca ctatcactat gctcatcagg ctcaagaccg ctctaactga 180
 gactgagacg cacacatgat atggatttct tgctgactcg caagatgtga cacacgagca 240
 tcactatgac tacgtatgcc actattccta c 271

<210> 27083
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27083

tccaagtgag aaatatacag aggagagtgg ttacctaaag gcactttgat gagagcaaatt 60
 aaggaataga tttggctatc gcgaaagacc gaaaggatta tatgaaactt atgctgtatt 120
 ttcttagggc atcttagaag gcacatgtcc tacatttttc gagtgttttt atatcaacta 180
 gtccgatctt caatagtatc ctatgcttat cagcctcatg atcgttctat ctgatactgt 240
 gaccaacagt tgcttatgat tcgatgctga cacacaacaa ggcgacatga gtcttctcca 300
 tgtaaacata gtctcctata aatttaagtg ccatcaagca tatagcatat ttacattttt 360
 tacaatgctg catataatac ttattctata gtaactactg atcaatgtat atgttataga 420
 actctntcga aagcatacac ctcacatgtg 450

<210> 27084
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27084

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tggcccttct cctttatgtt tanaaagata gcttttcatg ttaactatga aaagggttatt 60
gaaaaagggtt ggagccatta atttgttggg tgcctatgt ttgtcttaat atgcaagctt 120
aaagtcataa ttatgaatct aaataaatct ttctttggtg atattcatga taaagttaat 180
tcttgttata aacctattga agttatccaa tatgaaatta gtcattgttg attttgtgat 240
gcttgaagg acaatgaggc taaagcccaa ttagatcttg atcaagctct ctcttgcag 300
agactttttg gaaggaaaag gctntgtgaa atggaattgc cattgtaata catcctattt 360
tcacatgact cangtacatc aaacatcaaa acggtttcta tacttcgtaa tggagactcc 420
ctgttaacct ctcaactaga attgaaaata gaggttcta 459
```

<210> 27085
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27085

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cgggaatgat gcgtcgctat tacgcgcgat atcagctctg acctcgcgat actatagagc 60
cgacctgcta gcgtgcacgc ttggacttat accgctccag acatgacagt cgccgatata 120
agaccgctct acgcctacaa cactgacttg ccatctgagt atggtcgctg cgacagtatc 180
gacgcgtccg acttatgtac tactaatgca cagagttgac ccatgaaatt ggggaccgat 240
gcttgacatc gctggataca cgcatacata acctcggtcc aggactatga cttcacttgt 300
atgccccatc tccggcagca gactaaggcg tgcgcgacac ttaatanata cgaggcgtgt 360
cattggattc cgtgtgatgc ctgatctatg agcgccctcc taggaaatgc ataggggcca 420
gaggaaggng cacatccaga acttctacat gtgagggacc gccctgacta gctcgatggg 480
gagagctatc tccatctgtt atgta 505
```

<210> 27086
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27086

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 gtcgtttcga cgggagcgc ggcgtccaact cagggacgc gagtatactg atttccagga 180
 ggagataggg caccggcggg ggacatcact ggttaccccc atggccaagt tcgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 gtcctgngta aggggtcagt ggatcccgtt tgatgccgac gctatcggcc agctcctagg 360
 atatccgttg gtgttggaag aaggccaaga gtgtgagtat ggccagagga ggaaccggtc 420
 tgatgggttc gatgaggagg ccacgcacca gctgctatgt ataca 465

<210> 27087
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 27087

gtgatacgat ctcagaatgt gggatatagga cccaagttac cttactctcc aacacaccca 60
 cgcgagccca tgacgacagg cctgaacggg cctacagcac gagaaagcag gggggacaac 120
 aaaggatcta gaacagacgc gaataccgaa agacgagggtg aggataagac caagcccaac 180
 cacacaaaac gggctagggc ggtgaggact aactgcaca agccttataa gcgatactca 240
 cgacataccg ccgccaacag gcgaccc 267

<210> 27088
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 27088

ggggccatga catgctaatt gacccaaagg agggatttgt accgatgacg ttgatcatgt 60
 acgttctatc attagtagac tccaccacat agttactccc aatacaaaaa ttatttaatg 120

ttaaccagat gaccaacca atacatactg gcaataccat gactactatg tggcatgata 180
 atagcttc 188

<210> 27089
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 27089

tgtaacatga ctgcttttct tatatataat caccaaaca aagattgcc taagtatctc 60
 ccaccaaccc cgaagatcaa atctcatact cctccgttt caaaatacat gtccattttt 120
 gaaaaattgc ggtaaccaag gacaggctaa tttgacacaa aagttcctat tttaccctag 180
 tcctttatgt tctccattat atatttattt atccacctc ataattactc ccaataccaa 240
 aattaattaa agttaatcaa attacaatac caatacatc tggcaatacc aatactacta 300
 aatggcacta tttttgcttc ggtattgaaa agctcaattg gcatagttcg gttatcatag 360
 tttgttaaaa ctcaattgaa ataacttccc tccattatta attatactct aatcttacia 420
 tgttgtggac a 431

<210> 27090
 <211> 170
 <212> DNA
 <213> Glycine max

<400> 27090

tccatgagga tcaactctgt gtacctgaag tactatgggt tgcttgctaa cacgatgctc 60
 attctgaaaa actgcatgca ttgggatgag ccattgctcc tcgcattact cattcatttt 120
 ttatcatgcg accattatag cgtgaggtac tctcctgtgc gcatagtcac 170

<210> 27091
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27091

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 gtccttttga ttcaatttgt gcatttctga ctttatgaca tgagatgaag ttcaaagatt 120

ggacctcttg ctagtcgtta ttgataaaaa gcttaaacac ttgtgcttga gtgaaacaga 180
 agctgtgaga tttcgggttaa gcatctttcc atgaatctgt ctctgtcta gctntattta 240
 gttgtgttgc ttgctaacat gttcttttct ctgaaaaact gcatgccttg tgaaaagcaa 300
 ttgataaagg catttttgtt tcatttttta tcatgcgact aatattttgg gagttacaca 360
 cctttgcaca taatcactgc atgttttgtc acctttntat ttnaccttg ttagttagtt 420
 tacacacgtg ttcatactac acacaaacct tttaacaaca g 461

<210> 27092
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 27092

tcacgactga tttgacagac gttgtgagac gaacaacttg gatgcacttt tgtccctctt 60
 tgctttctct aattccgagc tcacagctcg gacttactca tcctcttcag gagcctctat 120
 ggactcatcc ttgataacct ctaatccaaa gagccaatcg aaggcgagtg tatgaactcc 180
 atggcataca cgataacgaa cagcgacgcc attaccaacg cctccattgt ctttaact 238

<210> 27093
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 27093

cttcaaggag gtgagcttag ttatgagagg ggatagtgtg gccacgctct agcttctcac 60
 ggaagtgtgc tcaaacaagc ttgtcaagga tgctctctca agagaccttc tcaaggaagc 120
 tacctactct ataaatagaa acatgtgtaa cacttgtggt aactctgatg aatgagagtc 180
 ttgtgagaca tacttcaaag atgcacttct ctccctcttt tattccttca atttcgagct 240
 ccccttttac tctttctctc cctctttctc ttccctatatt gaagcatcct tctaagcgtc 300
 ttatccaatg ctcatcttga tgggtgaagct ccttcttcca tggcttattc cctagcggat 360
 ggcgcctgct ctactactt ctctttgtc ttccactgca tcttcatgga ggagaatcac 420
 cattaaagga cct 433

<210> 27094
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 27094

tgtataagac tatgttgcca ctaggaagac gggtagtatt tttcccgctt gcaatacaag 60
 gcgagggttg tctcacgatt gagagattga actaactaaa tacatctata tggacataat 120
 tcatcccggt aataccacaa aatcctaatt acagatagta attagaagtc tgagacgaaa 180
 ggagggtcat agtgacctcc atcatattga tcttattgct gcagttagaa acacaaatga 240
 ataccaaaat aattactatc tgatagcatt aaaaagatgt atgatttcaa ggcatgaact 300
 tggtaaagag tgtgcttact aatgctgaag aggacacgct ttacatggaa ttcccatatc 360
 tactcttgat ttgctaattg cttacaagag catatagaca tacatggaga ct 412

<210> 27095
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27095

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 ccacggcatc cgcgattaga gagtcacat taagaagcta caatgattgt gaccatatag 120
 atgaatcatc agaccagtac tgaactacac tctagcaact actctgatat atagcgacgg 180
 cctaaacaca ttgttncacg tatgaacaca attaccccaa tctgtgctgc tacgactcag 240
 cactctttac tgggtgaatt gactattcaa caaatgtcta tttcccatgc gtgcgaactc 300
 ctgtacatgg tagtagtcca ctatgccta ttgcttccac c 341

<210> 27096
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27096

tgtgatatca atggaatcca agattcogtt agtttcttgt cgttcaattc tattcttaga 60
 aatgtgacct aagcgcttat gccataatgc tcttgagttt gcattatcaa ttctacgctt 120

663447 931.4120

agtaccatgt aattccgcat taaaggattc accataggaa gctacagtat caagtaaata 180
tagattatca taagccaaga gtgaactagt tctaacaata tctgaattaa aagacaacct 240
atacacattg tttccaaatg aacacaaata acacaatttg tccaaataag aaactgaaac 300
caaattccgt ctaaattgacg atacaacaaa tgtgtatttc anatccaagc aaaaaccagt 360
acataataat aatctaaaat gccctatnag cttcacctcc accaatttac catctccaac 420
atatatctat atttcacaat caattggctt cgggtagctt a 461

<210> 27097
<211> 326
<212> DNA
<213> Glycine max

<400> 27097

tacatagaag accgactgaa ccatgagatc cacttcaacc acacgctaac tttcctgac 60
tatccagcaa cagatacgac cctgcatgga ggatttactt tactctatta tggcacactc 120
ctcaagctca tcatccacag cctgcttcgt ccgtgcagca tgctgttggc cggctcatac 180
catacatgta ctgcagcctt ccatctgcta ttacacctcg ccatacgacc aatatccgag 240
gcgactactc aaccttgctt gacctaaactg gagctgaaaa agactatgca catcatgcct 300
tccaacgaga gacctatcct gcattc 326

<210> 27098
<211> 468
<212> DNA
<213> Glycine max

<400> 27098

gatactaagc ttcccaggaa gctacctagt ctataaatag aagcgtgtta ctcttggtgt 60
aactttgatg aatgacagtc ttatgagata cacttcagag ttccacttct ttccctcttt 120
tattccttca atttcgtgtt cccacctttt ctctttcttt tcttcatta aagcatcctc 180
ttcaagcttc ttatccaagg caattcttgg tggatgaagct ccttcttcct tggcttattc 240
cctagtggat ggcgcctccc ctcttctctt ctcttttggc ttccgctgca tctccatggc 300
gaaaaatcac cattgaatga cctcattgaa gctcatagat ccattctgca tagaagctcc 360
acacgtaagc ttccatcatg cataacatgg catataattc tgtcaccata tacaggctga 420

tgctcccatc ggctaaattg gtgaggcggt tatggaaatt acgcctct 468

<210> 27099
<211> 440
<212> DNA
<213> Glycine max

<400> 27099

tcgagactga agagcgtgcg agtctttatc tgtgggaggg agaagagaac aatccaaaat 60
caattgtacc cttcaagtag cgaagaattc tgtttgcggc tgtagatga ggagaggtag 120
gagcctccgt aaagcgacac acaacttcca ccgcatatag aatatcgggc cttgtattgg 180
ttagatacct taaactcccc acaagactct tgaagaccat ggagtctacc ttctctcctt 240
catcaaactt tgataacttc aagccacctt ccataggtgt gttcacggga ttgcaatcaa 300
gcatactaaa tttcttcaac acttcttttg tgtagcttcc ttgtgagaca aagataccat 360
tctccatttg cttcacttcc attcccaagt tatatgacat gagtcccata tctatcatat 420
caaattcacg agacatggac 440

<210> 27100
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27100

cgcctttgct tcttgccat tgtgatgaag aggtaagatn atgnttcggn ggggggggaa 60
ggggaaatta caagtggaag aacggtcacc agggaggtgg gggcaaata gctaactgaa 120
aaagaatgaa atcaatgaaa taaattgacc ttcaattaaa aaaaaagtat tatatgtaac 180
cgtaatttct tcccataag acacttatga agatctccca cgctgtctat atgccacatt 240
gtagaacata aagctaagac caaccaaccc atcacgttag taattaatta agccatgact 300
ctaggcctgc aaaataaaga cttttattng caaacaatac ttctaaaaat aacaatactc 360
atgacatgat acatatgcta gtttattaac aaagactaag tatttttctt ataaaagaaa 420
ccattctaata ataatttctt catatataaa tatatactaa catatat 467

<210> 27101

<211> 146
 <212> DNA
 <213> Glycine max

<400> 27101

atgatgagaa ctgtgggct aatcagatgg agagtgaccg caatgcagct aagtaatgct 60
 atgcatgtta tgtgctgtta actatagact gtacctacgc tgcacactag tcctgactcc 120
 cactaccaga ctgtgctgga gcgaca 146

<210> 27102
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27102

tcaactacaa taggtcattg aatagccttg tcttttcttt ttctatcnct ctgggagcat 60
 gggaagtatt aaacaattat gagtacttgt gttttattca catggatatt ggttgtacat 120
 cagctattta attatttttt tcttttgtac ttttaacttt tccttttcat tctactgttc 180
 aatataccttt gattctggga tcaacttggg ctttagcatt gatcatttat tacttagaaa 240
 ttgttgagtt tttttcatgg tttataagca catatcttta atatatcatg gcaccacgat 300
 gggcaagtgt gaacttacgg atattcattt gcatgcaatg ttcacgaatt caccgtattc 360
 ttggagtgca tatatcaaag gtatatgttc atc 393

<210> 27103
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 27103

gctagctctg atcccttatg catcaaakat tccagggact cggatcatatc gttgtcgcag 60
 ctatgtcttt gagacacgct tcaactttcta cgctagaaac catagagaca ggactcgatc 120
 gtttgactgg cctgtctgac gatgatgaca ctctatcagc acttatttaa ctttgagata 180
 tatgactgaa atatggagcc tctaaacatc taaggactat tttg 224

<210> 27104
 <211> 444

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27104

 catgcgaagt ggggtggaatt cctagagtta ttcccttatg ttatcaaaca taaaaaggga 60
 aaaggtaata ttgtagccga tgctctttct cgggtgcatg cattactttc tatgcttgaa 120
 acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga aacttttgga 180
 gaaattttta aaaatttgta aattttttca gaaaatgggt tcttttagaca tgaaggcttt 240
 cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt 300
 gaagcacatg aaggagggtt taatggtgca tttnggtcc aaaagactct agaaacatta 360
 caagaaacat tttattggcc tcatatgaca aaggatgtgc agaaattttg tgaacattgc 420
 attgtatgta aaaaggcaaa gtct 444

<210> 27105
 <211> 141
 <212> DNA
 <213> Glycine max

 <400> 27105

 ttgacagaat gcagagacta catctctgct tctgctctct tcgacaatcc ccgtcgacag 60
 gctcggtgac acgcttatat attcttaact ttgcaggctc acccgaactc acttactgac 120
 tgttgctgta ctctgactgt c 141

<210> 27106
 <211> 460
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27106

 tgtgtgcaat aaacaaaaaa ctgattatga attagaatct ttgtctnttc gcgcgaatcc 60
 gctatgcgag cctcgttgag aaaccaaaca tctctctggc ttgcttagca tagcggactg 120
 ctaaacgaga gtgtcaaaaa ctacttaagt gagtgtaaca gcagttatac tcacacttgc 180
 cagatgtcgg aaacttcac tctgcattca ctctctccaa aaatccgcat atattgcatt 240
 tgtgctttct ttttgcatta tcaactttga agcaacaacc attcacaatc caagtaagtt 300

<211> 276
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27109

 actgagctgc ggcctacact agcaccgcac atgcttaacg ctctatactt caacacacct 60
 cacttgctcg tgacactatg ctgacaactg cttgatacga tgagcctctt atgcatagcc 120
 attattgaga tatcactgaa gaatttacgg gttgaataaa taaatggcaa tccttgatcc 180
 tccacatata tataatgaac gcntctgcc ttccaatggg cccgccccac acngattnnc 240
 atatccgtgc actcttatga cctacaatac attagc 276

<210> 27110
 <211> 244
 <212> DNA
 <213> Glycine max

 <400> 27110

 taccacagtg ctgcggcata tacgagcacc gcaactgctg atcgctatctt cctccacatg 60
 acctctttctg cagtttatcc ttgccgaca actccttgac atgatgagat acatatgcat 120
 tgccaacatt gcgtcaagac tgaagaatga acgggataca atcattcatg gctgtcatgg 180
 ctctgacaca ggtaactcat tatccgtccc gacttccaac aggcgcgctt atacattgat 240
 tcat 244

<210> 27111
 <211> 590
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27111

 ccgcaccacg actgcggcca gagagcacgg atangacata caccacaac gcgaacgtgt 60
 ggannnnccc ccccccccg agcncatgat gcgtcgctag nacgccaccn anacaagaca 120
 caagcgcgca acngcgnagg gagngaaaga gggcanacnc agtctagtta aanacanacac 180
 acgcangcag agacgagcga gcanacaaag caaaaacaac caccgacaac acncgcaaca 240
 caaagacgga gccaaangaaa accgacgagg gccacngaaa gaacaaaggc ggnnagagac 300

<210> 27114
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 27114

ggcgcttatg cgtacggagc cagaggctgc cttgcctccg acatctcaca cactcgtgaa 60
 ctacgatgat cacacctgag ctacgtcccc ttagctcgct atcttttatt taccctgtct 120
 tcaatgcttt atggaatcat tgcagcttac ccatcttggc tctcattgaa gcctcatgcy 180
 acgaaggctc gacgacctcc tacaatggag ctcccttcct cgcgtctccc agagatgtaa 240
 gctccacacc ggtata 256

<210> 27115
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 27115

tgcactttct cactttcctc aaggacttca gcttctttcc cacttgggcc tttaaagcttt 60
 gggagccaag ttatcccttg cctcctaaac ctcaaccact tgtgatagcc gctgatgacg 120
 ccattgctac ttcccctaag ctcccttatct ttccctttcca ctgtattcca tgctttatgg 180
 attctctgaa gtatcctcac attggcttca ttgaaacctc gtgcgacgaa aggcgcgatg 240
 atctcctcca atgggtgcacc tctcataggg tagcctagct gtcttatggc cagcatggga 300
 ttataattaa tacaaccctt tgttcctatc aaggggatgt ttgggaatcc ttcacacgag 360
 cacaacactc ctgcccctcc ttctttccat cgggggaact agctaattga cgctcctacc 420
 atacctgcca agagttcttc ttaattc 447

<210> 27116
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27116

cacccacacc caacaaaaaa aaagaagtga aacgcanggc ctcnnaannn aaagttgtgc 60

tcagacacga gaacaaacac ggccggagcg gaaacacggc agcagcatac gtacaattac 120
gccgcggaag cagaagancg gaanagaggc gaagcgcaac aaagccgaga acacgaggtg 180
acaaagagaa atggatgaca aagaccagcg aaaatgaggg caagaaccaa caaccccaca 240
gaagacggac gagacgcaaa gagctcaaca agcacgcca cccaagtga acggagcgaa 300
accaagctaa cagccccga aagagacggc agcagaagag cgcaaacag gccagacaa 360
acggcaacaa cggcgagatg acaacgcagc ccatggcgtg gcacgaccaa gggaacaccc 420
ggcgaagaca caacgcacaa agacggaaga acgcacaaag cagcagacca aacacgcgga 480
cagaccacgg aaacccg 497

<210> 27117
<211> 504
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27117

cggggatgtg ctgtgacttc ggttaaanag cagcagctg agagacgtag agtctacctg 60
caagcatgct tgctttactc catgcgcca gaacgacgca tgcacctgca tgcacggcta 120
catcaattct agttggcacc cttctgtaaa tatgctctga cagagagagg tcgaatgatt 180
atggaatgaa acagactaat attagttggc ttcttgatc atcgtgaaag ctctctgtta 240
tacaatgagat ctttaggaca ctagaacctg cactatcttg tatattacga aatctgagtt 300
gagagtgagc tggcaaagtt tcctgggaaa tattctagtc gtgatatact ataagattta 360
ctgcgcactc ccatgtcacc actccattac ataaaggcca ggacacattc tgtgctattg 420
atagctggga gaggtactc aaacactttc aatcgattac ctattacaga ccataataac 480
gtattgtaat agccacaaca ctct 504

<210> 27118
<211> 389
<212> DNA
<213> Glycine max
<400> 27118

atgaagtga gctattcact atttattttt actatagcac ccagaacca aatcttgaat 60
cacatgcagt actagagcat caaaagttgg catccccacc taactatgct ctaacagaag 120

agtctaagtc tttggttctt cacaacaatt ttattagtcc agattctcag gatgcacctg 180
 taaagcatga aacttttgga caaaaaacct gcactatttg ttatttacia aattgggtga 240
 aaagaattca aatgtttctg gaaaagaagc taatggggaa gtcattaagg atcaacagcc 300
 acgccaatt tcaccactcc ttttactagt tggcagtgtc cagattctgt acctattctt 360
 ctcttttgag tgcctacac cgaactcat 389

<210> 27119
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27119

cgannctatg atcctgaacn tctggccttc gacctgacc gcgaatctat aggccggcag 60
 catgcatgca tgctttgagt tagcacggcg ctcgaggngc gtcccagagac tactgtcata 120
 gcagactgta cctgagggtac gcacagctct ctatataacg agacaactgc tgcttgagaa 180
 ctttctgtga aacactgtcg tgagaacctt ccttgaaca ctctctcgag aatctacgtt 240
 gcctgtgtat gaacgcctgc tataggatga ctctcacac ttctgtgcaa ggtaggctgc 300
 cctgcctacg aagggatgct agagcttatt gtcacacgcy atagcatatc acagctgata 360
 ctatggcata tgcattgatc tggacgaggg tgccctctac aggactactc ggatgacctg 420
 aatgcatgtt agaacataac taagagatgg gcaactacac gcctaccgaa tgaacactct 480
 c 481

<210> 27120
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 27120

ggtaacctcc actagtgtaa gagtagtacg tacgtgaagc atgtcaagct cccctagctt 60
 ggacaactgc tgtttatgct acttatagca agcaggctgg ggtgaacaag ctttcgagct 120
 tgcattgaaa tatagagcct gcacgcggat gatgtcctta aatatgaagc actaccctt 180
 ttctgatcat tgtaagatgc atcgaagaca actgattcct tatgactttg gctacaggcg 240

agtgcatccc acacatgtta cttctgcata tgtaacactc atgggcgcgg cgcgttctga 300
agatacacca catgggtg 318

<210> 27121
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27121

acgcgnnnna tgattgaagt cgttngcaca ntctngnagc atatacgagc actcgagccc 60
gtgactnctc tagagctcga cctagcatgc atagctttgc ttgntgtgta ttcaattgcc 120
gagcgtatac gagatacgct atggactcga atcgcacatg ctcatagcaa gtgcatgctc 180
gcttaacttt gatctaggat gtgtgattaa ttcccggcat atatatatac gccctgaact 240
cgataacgca tgctatgagc acattcttac gactagaact ttctactgac gatgtatgat 300
tgattcacat catgtatagt gacgatcgaa atgaaaacgt catctgttaa aaagttatag 360
gacattgact ttgttctcag attatcgatt gtgtcctgaa cttgccgaga tgctcggatc 420
gataacaacat ctcatc aaa gttatactcg ataatttgtc tgcgtgcttg ttctgctggt 480
gcagttcgag aactcgagat gagcagactc cgcg 514

<210> 27122
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27122

ggcagcaa at ncagaccgca ataactgttt acttttatgt tctataaaga cccaggatat 60
accgagatgc tataaattga aaacggaagc tcatagcatc tgcagaccac aataacatat 120
acctaggacg ttcgatgaac taccataata taacaagacg ctcgatatcg aatacggag 180
ctcctagcga atgctaccta caaaaacttc ttactcagat gtctgataga gatccatatt 240
gtatagcgac acttgaaata cacaa 265

<210> 27123
<211> 458
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27123

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cctcnatatg ctatgagcct gaattcaggc attcactctg accgtgacct ctgagataacc 60
tgcgttgcat gcagtttaca cagggggtcag cactaagagc tcgtctatTT ttgtgagtta 120
ggatggagat actagaggat atcaagtgga aggctttcat cacggtatcc agtttgaggt 180
tcataaggct ccctacagct catacatata ttactcgtt cttcaatatt taacgggtaa 240
gatactccta ccttgccctt catttcatat cttgtactac aggcgtttca cgattggatc 300
acagctctca ttatcctctc taacattatc ttataactcc cctctttgac gtgctatgcc 360
atttagttaa acatgcctgc ttaactacta tcacatgtc cctctatcga tgatgtgcct 420
acgttctttg cctaggtgct acgcactccc tctgctcg 458
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<210> 27124

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27124

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cgggcataag cttgataccc tagaactcng agaactatga aactaagctt ctcccatct 60
tctataacag ggtgtgattt tatttataacc agggctcgcc cccttatgca ctogatctct 120
tacaagtgcg ataagagggt ggtctctgtg aagaaaagac cagtccagga cctctcataa 180
cgtcttcgag aatgacttta cgaaaggttt ataccatct gcaacgatca tattctatct 240
aattcaatgg ctgagataat cctcaaacct tgcctatcca ttcattctat gatcccttcg 300
aggtcacatt agctaacaag ttttatttct catattctaa tactgaaata cccctttgga 360
cgagcataca cttacgtcta gcgttgctcg aatacctgat atgaatatat tccacgattt 420
gcatattgcc aacatgacct gtatgaatga gtccgacatc gaactcctaa cagc 474
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<210> 27125

<211> 507

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27125

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cccccaattgt tgcctattg atnccgttcg acttntctgn gacgatatcg agctctcgag 60
ctcgtggcat ctctatagtg gacgcagcat gcttcgccat cttgcctctt gcgttatacg 120
tgacagttgc tcgatggagg actcgaccga ctcaaccggg gcatagctgt atgacgtata 180
tagagggtt ctacatactc actttatgca tgagatctcg gctgttgaag acgctgcggg 240
ttcactgctc gtatacttgc tttagagccg ctttgtgtgt ggctcctttg ctggaggagg 300
acacatatgg tgctgtgcac gttttcttgc tcaccccagc ttactcttcg tagacttctg 360
tcccagacac tcccgttctt cgaatcttag tcatatcagc ggcatcaatt ctaacgtga 420
cctggctctgg atacctctgt cagaagcctt atctgatcga gcatgggata gatcctgcct 480
atgcatgcct gcatgttga tagtcan 507

```

```

<210>      27126
<211>      457
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      27126

```

```

ttgacatcaa caatatgagt gaaactggtc cttatgtgtc atcatcggtc ttcgattcag 60
ttgctcagag gatgatgcag tacgcctcac cgacgaattg ctattttgca taaattcaaa 120
ggcatctaca tactcccagt aaaatggatc gcgctttgtt gaccttgggt tcctgctcat 180
agctttcttt ggagccccct tcgtgttaac ctttgctgga ggaggacaca tcgaattctg 240
atcagggtat gcaatttccc aaagtttagt cttcaaagta aacttaccac aaacatcaag 300
ttcttcgaat cttttaaata ttggttccat tacttccttg atgtcacct cgggctcaga 360
taacccttgg tctganaaac ttagtcatct ccagaacntn nggattgaat ccagtggaat 420
gcaaccacta acatatctgt atagctcaca agcacia 457

```

```

<210>      27127
<211>      382
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      27127

```

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ctgcaagcag gcacgcttcc gtctattact acgctgngag catagcatat tgatatgac 60

```

gcttagatca caaggatata attgtgagcg tcgtagtata cacagcatat gccaaactact 120
aatacttact taaaacactc atgctccaag ggcgtaggat catatgatga tatcatattg 180
tgcgcatacac aatgggttgaa ctctgattca tataagttca tctccataag atacttatgt 240
gttgcgccat tgattccaac cctgagctta ctagagttga atatagtcac tataattaat 300
atcgtctgga acttatatcc gactcactga ctctcgtagg ttccagatat gcgagaatgc 360
tgtaatatcc aatctctatt ga 382

<210> 27128
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27128

tataanaagt ataataaatt aaaaaaata aaatnaatac ttatattaat actatgtttg 60
catcaaatat tcaaatgaac atttagatgt aatgataaaa ggggtgtgcat cttatttcaa 120
ggatcatagt tctactccta atttcttctt aaagcattct ttttaagtaag gcttattaac 180
atatgattaa ataatatattt aggggaattta atgggttaat tcatattcaa atattttcat 240
aaccattaat taattattaa tttcgacatt tattttaaca aagaaattat tatttttgaa 300
tattttaatt tgaaaaaata ttcttttgaa atattatttt atttacgtac tcaagtttgt 360
ttgaaatata tgattaggta atattattct atcgctattg acataattta cagaanatgt 420
tacaataaaa aagtgtgtga ggaatatatg aaatttgttt aa 462

<210> 27129
<211> 487
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27129

gagggatgat gcctcgtgta cggctcaatc accggacctg agatgtacaa gttatcgcca 60
ggcgagcaag cttattttgn gttttgagat acaatagaga ctcgacttac tgactcatgc 120
ttatactgtg gctacagatg gaatcaacaa acaccgcagg atctatagtt ccagcttata 180
tccataaaat aaaatgcagt gcatgcagca ccactatctg atgaagaagt tatgataata 240

caatcaagtg gtgatcgaat agtgtcataa acacacacat gcgacggatt catgtattgt 300
gactgtgggg acaggacatg ctaatgatgg gactttgtat tagaccoccta acaacttgct 360
gatcttacgt aggctgttg ataacgggga gacttatcct tctccccaga gcgcttttgt 420
atttattacc tatacctaac acataggctc acataatcct ttttaagagag atatataaaa 480
ggggccg 487

<210> 27130
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27130

agacattttt catgctgtgg agacagtttt angtatgtgt tntngaattc aataaagacg 60
ggtcataagg actcatgcaa ttacaattca tcatgaagga ttcaagaaat tccacagaat 120
ttaaggtacc aattttccta taaaatcttt gaagtgatgc acatgactat tgttgagttt 180
tttatgacaa aacacgaagc aattagctca cagtgttata aatacacaca tgcagctaata 240
tcatgtattt tcaactgtgtg aacaggacat gcaaaggatg ggattttata ttagacatat 300
ttcatcatgt tggctgtatt ttagcttgcc tgatataggg gacaccttac 350

<210> 27131
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27131

gacgagcact tcacgctctg ctogctgctc atgagctcag agagagacga tatgcttcgc 60
attccgcttg tgaacatgca gtatgataga ctgtgatgat ggttgctcct gagctccatg 120
tgtaatctac atagcgctct acactcatca gcctaccgct cttatattac actgacacat 180
cangacgtag aacgagctat cactctatcg aatattagca cgtctcttac gcgcatttga 240
aactgctatg cgtggtacaa tgacttgtat gcgctggaca ccgcgctgga gacctactgc 300
acacttgctt gtatgagata gtatgctga 329

<210> 27132
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27132

cacggcnntt tgatgagtct gttgcatggc gnnchamtg gtanagntcg ctncnnntgc 60
 tgatatggat caagcagaca cccctgtcgt agaccgaaga acaannangg aaagagggga 120
 agctgggggg cctnaagcga caagacatgc ttcattttat tcttgtgacg atgttctaag 180
 tttggctatg acaatgggtc aactgaaaa tcattatgga ttctcattga gctataatct 240
 catagagcta ccttgtaatt gtcggtgtcg acagcaccgc tagcaagagc ttttcaccct 300
 gaatatatca ggctaactgc ccataagatc accaaggccg acaatgctgt aggttgtaca 360
 ccgactggag atatgaagac gctgagatat atttattgga cttgccgcta gaacgtagaa 420
 ggaccttgct cgacactata acctcctatg acgacctgcg accttttaat ctacg 475

<210> 27133
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 27133

gacctcgagc cccatggtgc gatcggcgcc tactatatga tgacatgacg agcactgtca 60
 gtagaaggca gcgacattcg gtcagcacga tagacacaca tttggaaaag ttggatgctc 120
 tgtaaacata tcggccttca gatgaaacaa gcgccgtgcg ctatttcctc gatgataggc 180
 gagatatcta tcctgcttag gctgtgctca catgacgagt atgatgtcat catggaaccc 240
 acacctgctg ggatcgtgag ggcgctgaat cgaaattgtt tccgtcagaa tgtgaacatc 300
 tata 304

<210> 27134
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 27134

tagaacaata aacttggcct tctcttaatt gtctttgttc ttgtcgacca cgatcaacaa 60

agtacttttcg gcacctacta tatgttgact tgaccaacgc tgttattgga atgctgcgac 120
 aatctttcaa caccttattc acacattctg ataggttggt tgtcatgtga ccatactctc 180
 gtccagatgt atcgtaagcc atgctccatt ttttctttga aatgcatca atccatcttg 240
 ctatggctgg actcaattga cgaaatTTTT ctaagtTTTg atcaaacaca tgcttgcaag 300
 gagtgtacgc tgcataaat ttgttaccat caaaagttgt acgtagatat gaaactcaca 360
 ttaacttaat gtataaaata aaccttaccc aatctcttga acatctcttt atgtttcgcg 420
 ttgctgaatt agcgattgaa attactggct atgtgt 456

<210> 27135
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 27135
 tgtcttcact acagcgcccc agaacgacac atgcacttgc atgcgctgct acagcatcac 60
 tagtcggcat ctctatctaa cacatgctgt actgaatagt caaaggatta ggaacgacac 120
 agacaaatat atgaggctct gagacataag atgcacctgt atagcatgga actacaggac 180
 gcggaacctg cactaaatgt aattacgaaa ctgattagag gaatggaaag actctggcga 240
 ataagcgaat ggtgaagaca ttactgatca acagtgcgc cgctacttaa cagtagatct 300
 gatatatggc caagcataca ttctgtagca tattgatagc ttgagaggag gctacacagc 360
 actactattc tgtcgcttat ctaaccaga cacatagtta tgtact 406

<210> 27136
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 27136
 tgaaggtaga agctaattca ctatatgcat gtatctctat agcaccocag agccaaatct 60
 tgaatcacat gcagtactag agcatcccaa gctggcatcc ccataact atgctctaac 120
 agaagagtct aagtctttgg ttcttcacaa caattctatt agtccagatt ctcatgatgc 180
 acctgtaaag catgaaactt ttggacacaa aacctgcact atttggtatt taaaaactg 240
 gctgaaaaga attcaaatgt ttctggaaaa gaagctaacy gggaagtcac tactgatcaa 300

cagccacgcc caatctcacc actcctttta ctcaggggca gtgctcagat tctgtaccta 360
 ttcttttctt ttgagtgttc tacaccgaac tcattttcgc taaattatca acaacagcca 420
 aatagttatg tactggaaag gtccacacag aga 453

<210> 27137
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 27137

agaggagcta ctcacgccgt gtattataga gcatcacctg agctgcatgt gatagaaagc 60
 catcgagtga acatactaac tgccatatct accaagccaa tattaggatg gacccttttg 120
 aagcttcata tgaacgatag gacaaaactc actatttgtt ggtacgatga tggagaagca 180
 atacttctag taccgaaaat gctgcttcaa atgaacgaac aatagatgta gattcttgag 240
 aagataaaaag cata 254

<210> 27138
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27138

gtacttcggg cgtgtattat agagcaacac ggtagctgga tggattgttt gccattgatt 60
 gagtttactt acaacaatag ctaccaagcc agtattggta tggctccttt tgaagcttta 120
 tatggacgaa agtgcaaaac tcctatttgt tggtagatg atggagaagc agtacttctt 180
 ggaccgaaa tgctacaaca gattaacgaa caagtgaagt tgattcgaga gaagataaaa 240
 gcatctcagg ataggtagaa gagctattat gatagaagga ggaaaccact agattttcag 300
 gaaggagaac atgtngtttt gaaggtttct tccgtaaccg gngtcggaag agctctcaag 360
 gctangaagt tgacacccaa gtatctaggt ccgtatca 398

<210> 27139
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27139

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gtcgaactga cggcatgctt tcttgcccag atagcgagtc tcacggagga tatgctgcac 120

gtgtacctta ctgtatagct gtgactaacg actgctctac tgttctcctt atgcaacatg 180

atgggcgctc accaagaagt gtaacacgcc tgatacggat gaccttatgc accttcacta 240

cgaatatgag atcatacctg tactgaaagc catcaactac aactgagagg ttccacgggc 300

gccccggaat agtgctgcc aggggggtag cttacatgct ttgcaatgaa ccttgacagg 360

tgagacggcc tctctcgtct gtgagatcga tctgtacca tgactctctg gggaccttgc 420

cttatgcgca acccaccatt ggacactgct atgctagata tgcgatcatt ggttattgct 480

ctgcctctgt ctcttggtcg 500

<210> 27140

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27140

tcattctaca cctganaaag aagatgagat agttgcatta aagagaaaagc ttcctaacaa 60

aaattttcat gcaggtggac cttcttctag taattatgac ttaccgcagc ctctatccc 120

tcttctattc ccacctatag caattctaaa caaaaaaatg gaagaagcgg aaaaggagat 180

cttgagagacc ttaaaaaagt agaggtgagc atacctctac tagatgccat caagcagatt 240

ccaagatatg ccaagttttt aaaggagttg tgcaccaca aaaggaagct canaggccca 300

acaatcagca ttgataggta aatctgttcc tcacattctt gagaaatgta aggaccagg 360

tactttctgt ttaccttgca ttattgggga acagtaaatt gagaatgcc tgctagatct 420

angagcatta gttagtgtca tgcctctgtc catatttaat tctt 464

<210> 27141

<211> 253

<212> DNA

<213> Glycine max

<400> 27141

catcaaacat tgagcttgac tgatctgccg acggatcgac tttagatact atattggacc 60

tgacaacagc tgcaatgggc gatgctacgc tactattgag agaccatgcg tgtatatggc 120
atgggctggg gagctagatt tgatagccga tatgaaacat ggtgtctatg gctttataca 180
tacgtaggta aacatatcac tagcatatac aggatatact atatgtatct ctcatatccc 240
gtatgtggga ttg 253

<210> 27142
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27142

tnttgaaatg gactatgtta tcgcanatcg aatttaatga atgtatgaag aaacattgag 60
catgaatgaa atggagacag aacgatctaa aatcacattt caacattgac aactgggtgca 120
atggccgata ctttgattca aatgatgaca catgcatgta taggcatggg ttggtgatat 180
tgataagata gctgatatga aatatgttgt gtatggcatt agtaggctgt caatcagcat 240
agacattgca ttttttttaa attaattaat tatatatcat atcccataaa ttgtcttcat 300
gaattttata aacatttagt ctcccatttt taaagccata ttaagtggaa tgtggaaaaa 360
gcgtataaaa tgagatagct gatacattca accagtttct gtatcttcct gttgatnttt 420
gactcactta cacgttacac aatatcatgt tcaat 455

<210> 27143
<211> 216
<212> DNA
<213> Glycine max
<400> 27143

atcatcggac tctatgtcta tgtgatgata gaccactaca attttcctaa caacctctag 60
ttattgaggg ctgaacatct atcatatcct ggcaattgcc tgatagctct ctgtaactcc 120
ttgttggcag gctatgtgta caaccttgct ctgggcttgt ctgacaatct gtgtcaacct 180
gagctcttga taagctaaat acctatttat cccac 216

<210> 27144
<211> 449
<212> DNA

<213> Glycine max

<400> 27144

agcttcatta agaggcttcc tctgaagctt tttatgatgc ttctagcata ctccagacat 60
cttctcaaag atcccaacag tcagatcatg gacaagtgtc ttgtgaagtt taagaccaaa 120
tttcgagaag atccaacggt taatgaaggc tgagcagcgt ttttaccgag gcagctgcat 180
gtagctttct ctagaagctt cattaagagg cttcctctag aagcttcctc gtggcttctt 240
tgagaagctt tctcaacagg attctttgag aagctagatc cttatctatc cacaccctc 300
tattaactaa attaacttcc ttaaaaataa ttacggatga aaataacgca acaaataatc 360
aaacatcaaa cataattact aataatatat agatatatat atcaggggtgt tacaaggaac 420
taacagattt gaggtcacat cctcttcaa 449

<210> 27145

<211> 229

<212> DNA

<213> Glycine max

<400> 27145

acgagaagct ttatgaaaac gatactgcta ctcgtaatct attactttct tctgggaatc 60
gattaccata gggtataaac tctgagatag aagggctctga gaggctgacc tgtgctactc 120
ttcacttgta cccatattta tatacttatg ttggatgagc ctgctatcga tttttgactc 180
tcgagcctgg attgttgctc ttgattctac gaacctgtgt atgagatac 229

<210> 27146

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27146

tttttgtgan aggatgtgac tcttcacttt ttttatttga atttcaacgt tcaaacacac 60
tggtaatcga ttaccaaadc attgtaatcg attacaacat tttgaaatca attggaacgt 120
tgtaaattha gttgaaagct ttttgaaaac aattttgcta ctcgtaatcg attacaataa 180
tctggtaatc gattaccaga gggtaaaaac tctttggtaa aaggttttga gaaaaattca 240
tgtgctactc agtttttgaa aaaactttct aatacttctc ttgattgagt cttctcttga 300

ttcttgaatc ttgagtcttg aatattgatc ttgattctag gaacctgaat cttgaaactt 360
gattcttgat tcttgaaatc aaatttcctt tgaaccttga agtggtcttg attcaatctt 420
gaactcattc tttgattctt gaagtcac t 451

<210> 27147
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27147

cacattatcg gcaggcatgc aagctttgat aatggaactt atgcctgttc atcttaaatt 60
gttgcaggta ctcttccttc ttcagatact cttccttctt cctagcagct agtgcctcaa 120
tcattcttctt gttagctcca gacattgacc ttgctgcca cactgctttt gcaatcaggt 180
tactcaacat aaatcttatt gacatattgt tctttgattt tccatagatt aaatgtgtaa 240
acatagatta aattcttatc caaactttgg ttataagttt ttggtagaag caagctaatt 300
gagttgctca cctttttagt taggtagttg caattctata ttagtcacca cattttttgt 360
tgctaggtat gaattaccaa ttnttggttt ctattcgtct tttgcaatat cctggaggcc 420
aagctgatng aatg 434

<210> 27148
<211> 455
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27148

cgcgcccttt gatacgtcgc attacgtgac ctaagatact aagctctctt atccagacac 60
attcttgngg gangcgcgtt tgtatgggaa ccacgccggg aaggcgaaat tgcagcacga 120
ctccgcccc tccgacccca gcctggacgt agcagccaga gcgacaatcc tatgctcgga 180
gctgcaggct acgcctagca gccaaacggc ggggcaatga ggaactcagc agaggacaaa 240
cgaatagggc tattagagcc tcatagaaaa atgtgaaagc gatacaaaga cgcataccac 300
aatggatgaa gaggctcgcc aagcacgcaa tcgagtgcc acctaacagt gggacgcgga 360
tacaacgcac ccccggtggc cgcgctagcc gaaaagcagc ccggacgaat cggggtgcag 420

gaccgacgac agcagtgagg aggaaagga aggan 455

<210> 27149
<211> 88
<212> DNA
<213> Glycine max

<400> 27149

tgctcatgga acaatctgaa ggagacgcta tacgatacat cttgaccac gtattgcagt 60

tgtcgatacc ttgactgcag tgagtctt 88

<210> 27150
<211> 467
<212> DNA
<213> Glycine max

<400> 27150

ctcagcttct caggaagctt ctcaaggagg tgagcttagt tatttgatgg gtgtctgtag 60

ctaagctcta gcttctcaag gaagtttctc aaggaaacta cctaggctat aaatagaagc 120

acgtgtaaca cttgttgaaa ctttgacgaa tgcgagtctt gtgagacaca cttcaaagat 180

caacttctct cctcttttct ctccttcaat ttcattctcc cccctctct ctttcttttct 240

ctccattgaa gcttcctctc taagcttctt atccaaggca ttctcttggt ggtgaagctc 300

cttctttcat ggcttattcc ctagtggatg gtgcctctc taacctctac tcttttatct 360

tctgctgcat ttcaatggtg gaaaatcacc attgaagtac cttagtgaag ctcatagatc 420

cagcctccat agaagttcac aagcaagctt ccatcaagtg gtaatca 467

<210> 27151
<211> 231
<212> DNA
<213> Glycine max

<400> 27151

tatcagacac gcgctgaaag aaatcctcgc gatactctca cgagatgcgc atgattctaa 60

cattctccac agaagtcctg agcggggcga tatcagaca agaggctctg aataaatcca 120

cgcgtgctct tgtgatatta cactgatatg aacctccaca cggcaacttt cgagcaattg 180

aattggacaa gagctttcgc acggaagttc taatcatgtc tatatgagat g 231

<210> 27152
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 27152

ccatagcaat cgctggagag tttccaacgt ctaatcataa gcggctccag atatgataga 60
 tcctgaagag gacatatgag cgataggata tgaccatagg aatcgatgga gagcttccag 120
 cgtatagtta caagcgtacc ctgattcgaa gtcacctgag agaacatacg agcgtaagga 180
 tatgaccata gctatcgctg aagagtttcc gatgtcaatt tatgagaggc tccatata 238

<210> 27153
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 27153

gacgctagag gaatggtgat cgactcttta caccaagagg caaccatgtg gatggatcgg 60
 tttgctctta cettgaacgg gagtcaagaa cttccccgat tgttagccaa ggccaatgcg 120
 atggcagaca cctactccgc ccccgagag attcatgggc ttctcggcta ttgtcagcat 180
 atgatagact taatggccca cataattaga gatccgtaag agactagtat ggtctctaac 240
 accttgacta gatacgactt cctttatgag ataaaatgag ttggtcccat gtttctactc 300

<210> 27154
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27154

tggtcagcg cttatgcgag acggagacca acatgctatc tatcatcgcc aagtaccaag 60
 aagagtcagg tctatccgag gccacgagc ataggattgc ggacgaatat gcccaagtat 120
 acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
 ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
 aggccaatgc gatggcagac acctactccg cccctgaag agattcatgg gcttctcggc 300

tattgccagc atatgataga cttaatggcc cacataatta gaaatcgta ggaaacttgt 360
atggtctcta agaccttgac tagatacgac ttcctttttg nataaaatga gttggcgcat 420
gtttctact 429

<210> 27155
<211> 291
<212> DNA
<213> Glycine max

<400> 27155

gctgcgggtt tttgcctcct atggatcgga tctgctgcta ctagacggcg cttagtagga 60
gagtacacgg agagagctga gaagctcggg gatgtgttcg tactgtagcg accgcatggg 120
ggatagagct cttgcttttc agactatttg attgcatgct acgaatgaat gaggttatgg 180
gagagacgtg attgactgca ctttctcgaa gcgtattatt atctatttcc tagacacagc 240
ctattacgta aagatggagg gctggcagag tattaacact atcatacgat a 291

<210> 27156
<211> 447
<212> DNA
<213> Glycine max

<400> 27156

actcaagcta gacaaaatta tggacaattg tcttgccttc aggggttata tagctctcgg 60
gatgaaactg aactccctgg tgaaaaaaaa aatcaatatg tgaagagaag agaagggaga 120
caaagtgcaa gttcaaagat aataataata acaataacaa cagaaaaaag gcatgaactt 180
cagatcagca gaatctttta ctgctaacta tgaataaatg aggtaaaagg tttaaatttg 240
attgtaaagc accttcacga gtagctaagt ttcctaattt ttaaacacag cataaaatat 300
aaagattttg ccctgtaaaa gtataaacac taaaaaagat aggtgacata gacaagatat 360
aggggggtgc atcaatccag gaaaagataa acatggactg atggtaaaat aaattacatc 420
tactatgtaa ttctatttga caaaaca 447

<210> 27157
<211> 498
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27157

cgggatgtgc gtgatgcctc tcggtcaatc agcctcagct gggataactca gagtcatgat 60
 gcatgcatgc attgcttgca gataaaggta cttcctcaaa gcaagcgata gaagagggtc 120
 tcgatgacac gcataatntac tattctgcag tgcgaacgaa ctactgctgc catgaacata 180
 ttgacgatgg gggacatacg cgagctgaga cgtgccgtct actagactag acacagatta 240
 ctcccaaccc gtccatagtc atactcagac tctaccaaag actatcctta atgactatcc 300
 tgtaatctat catcgccttc cctaaatgat gcactacgcc atgacactct tcttactatg 360
 acgaatacca gttgtagccc catctatatc gcgaccact ataggaagat cgctgctcat 420
 cagctctgtg catgccaccg atgatggtgg acgatgctta tacatgcatg gnagtatata 480
 cgcgaccgaa gtgctcct 498

<210> 27158
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 27158
 taataaaatt tagttttgat gagaaattga ttattgttaa tgtaaaatta tttccttaaa 60
 caatctatat aaaacaagtc atgtccatt tttttaacta tttatagaat ctatcaccac 120
 ctccaaacta ccataaacat aaaaactagg gttacctttt gtgagtagag aggtgtgtct 180
 attgtataaa acaatttaac tcaaacagtt caaagttatt atcagagtca accaaagaaa 240
 attttctatg actcttatct aaactatcat caaatacaag aaaagatggt ttacgttatg 300
 acatttttca taattaaaag attaaaagtt gtcaccacat atatatagtg acaaactttg 360
 gattgatcac ttatcatcac taatatgcaa gtcactgttg tattagtgat gaatatttta 420
 gatgtcataa aaatatatat tgtgatggaa atgttgtcac 460

<210> 27159
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 27159
 tgttacaacc aatatttgtc cgaccaagcc acagttatct ctaacacata agaaaatttg 60

ttggtttagat tgcacaatga ctaacacccat attgtcttac aaacgaataa gcaaattaaa 120
 tgcatagtct cttttctcaa gatgaataaa gagttttgag agcttttcta aactctacaa 180
 gaatatacac agagagattt ttacacagaa tgaaataatg agtgcttcaa atcatgctac 240
 atatcttcaa agcttctggt atatataggc cttttttaat caagtaattg ttatatctaa 300
 acggacatat ttcctctctt aagcttatgt ctgaagaaaa tggacgctgg ggcattaaat 360
 gtgtgcatta tatgcatgta ctgcttcatt ttgagaaacc actctatgtc gctggcatgt 420
 tgaacactac aacaagagat cact 444

<210> 27160
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 27160
 tgcacatgtg aagcaattaa actttgtctc aatattaaac agatggcgta tgctatgctg 60
 gtatggatag ggtggagcca acacttttct actatttact gactgattat atccatggat 120
 ccgtatggct cgttgaatca agatatttcc ttagatcatg aggaagatcg aaatgaagta 180
 ggtgcttcca tgtatactgg agagctaacg catgcttgag cctt 224

<210> 27161
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27161

catgcactca cctataattc tattcttcgt aacccttaaa gccttggtcc actccttgat 60
 ggagctcact acagcgcaat aatgattctc catgatatca ccttatcctt acagaagtct 120
 tgagctacta aattgtatctt agaatgggtg tgagggggaa tatgatacac tgactgaagg 180
 aggataatga ctattcttca agaagtatgc ctctccatgc tctatgttca gagtgatgag 240
 gctcttgcta ctacatgcat gttgaaaaga tctatccagg agaatagttg actangtcgg 300
 ctcaattgat ggctattcct gagcaggata cttattccga a 341

<210> 27162

<211> 452
 <212> DNA
 <213> Glycine max

<400> 27162

tgagtgatat tgtcacagaa tacacttggt gttctttctc catttcatcc accccacttg 60
 aattctagtc ggcgattagt taaaaaggtg tatattttta cagcattgag gagaaataat 120
 aatcaaggga ataatcattc tattttcaaa ataataattg ttacagctgt catgaattac 180
 tagtagttag ttagaggggg taagaaaata aataggaaag actgacagag ggaggagaat 240
 aataaatgta agaagagttg gcctctcaaa gagctaagtt aggattgatg cagctcttgc 300
 tacttcatgt attttgataa agaactatcc aaggaagaaa agtttgactt aagtgagctc 360
 aaattggatg gactaatcac tagagcaagg agtaaaagat ttcaagaaga gtttgtcaag 420
 agactaaatt ctctcatgga gggaaaagaa ga 452

<210> 27163
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27163

ntgtccgcan aaatcactga gaaccgtata gatgtcctgc gccttacacg agcatctttg 60
 gttttatcgg ttaacacgga ccattcaaaa gcataaaaat caacacatca ctttactgcc 120
 ttcgcgagaa ctacgtaggt ctgatttcct cttcgatgga ggatacgtac gagcaaaagc 180
 cccgcttttg tcgacctcgt gagacggtta gaggtccaac gccttagctt ttctcacata 240
 gtacaatgga tcattttaag gtccaaacgc cttaaagac cgccttccaa gtganaagaa 300
 tcacttgatt cgcctcttgc gaaagaactg cgtatgtctg atttccttat cacaattgat 360
 gaatacgtat gagcaatgga aacacccttg tcgaccacaa aatgatcaat tatacataac 420
 aggctaaac tgacatatta ta 442

<210> 27164
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 27164

tctaattggat ggagcctact cactccatac attctctgat tcacgctgta ctcacacgct 60
ggattcatat catacaaaga actgatacat gattcaatca ttcaactgca taaacaacct 120
atatgcacac ctctctaact atactaatcg taatatgcat gactgacatc tacttcaact 180
gattacctga tctctacttc gtacgactgc ttctcctctc cttacaagga ctactctaac 240
cactctactc atgctgtcgc tgactttcat 270

<210> 27165
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27165

tcttatccaa ggctcatctt ggtggtgaag ctcttcttac catggctcat tccctagtgg 60
atggcgcttc ctttcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
gcttccatca acacgtccta gccatcagag gcttgacccc cctcgccttc aaaggattac 240
atgtcctcgc cttcagagga ctgcatgtcc tcaccttcag aggactacac gtcctcacct 300
tcagagggct acacaccctc accttcagag ggctctatgc ccttgccttc agaggactgc 360
acgtcctana ctntagagga ctacacgtcc tcaccttcag aggactacac gtcctcacct 420
tc 422

<210> 27166
<211> 258
<212> DNA
<213> Glycine max

<400> 27166

gcatgcttct accttctgcg ctttcgagat cacttgcaat tacagacaca acttgacaac 60
gatgagactt tctcgcgccg aggcctatcc ctagcggagg agtcatgcc aaccttagatg 120
gttgacgatt actctctacc ggtctctgcc gctgttcctt ctgtcttagc cgtacatcta 180
gcttctaccg gaggctcctc cgcacccctc tcttgaataa cttgtgtgga ccatgactgt 240
gcctcacatg ctgtccct 258

<210> 27167
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27167

tctgccctat tntoctataa atagggggag aagtgaattt gtttaaattgt tcagctctcc 60
 tggtaattcg agatcacttg aaattagtga aaaaaattgt ttccgtgaag aaaatccaag 120
 ccgaggcatt tccataacgt ttccgtagcg tttccgtggg taatttcacg aagattttca 180
 accgttcttt gacgttcttc gttcgttctt cgtegttctt cgggtcttcaa ccggttaagtt 240
 cccgaaatcg aacttttcaa ttcattctat gtaccattag tggctctcat ttgttatcca 300
 tggcctccta tgggtggtgag cttcttctag actcatcttc tccttgaagt ggcgtctcct 360
 ctctctcttc cttctccatt ccgctgccat tcctcttcca agaagcaaag gaatccattg 420
 atgaagaaga tcctaggcct acaagctcca atggagctta caacacg 467

<210> 27168
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27168

gggatgtgcc tgtaacgtg catatcacac gacctgggat ccttagagtc acctgcngcg 60
 cgcttgcttg tctttcgatt cctgcaggag gcatctaagg atgacgctga gcttaggttg 120
 ggctagacct gcgacggtg atcagaacga actagactat cctatggagc aggggaccaa 180
 gctcgcatag gatgacactg gctactgact cgaggtnat ttaactcacg ctacaacata 240
 catcacgagc gtttgattga tcttacatct atctgtatgc acatcatctc tgctattaga 300
 gggaccaaac gccattaccg acggctgtga gttgtactta cttgcataac cactgggtga 360
 gactaactga gtataccatg aggtagtcac cactatctct gtgatcttcc agagccgagg 420
 ctgaatagac cctgccttga ctactcgcgt gagaactctg ctcagattca ttcattataa 480
 tn 482

<210> 27169

<211> 451
 <212> DNA
 <213> Glycine max

<400> 27169

taggctaaat tagtctaaac tgtcgtaagc tatgtattct atgtctattc caacaagagg 60
 gatctaagga tgaagcttag ttttaagttag tctaaaccta ggaggggctgc ttaaaatgag 120
 tctagcccaa caagagggat cagggggacga agcttggatt gattcagtct aactagggat 180
 cgagggttag taacttaggc tacaacatag aacacaaaag tatgattgat tagagaaata 240
 tctttatata catcagctcg tttattagaa tgaccaaca tttctaccta ctgctgtcaa 300
 ttctaattac tagcattttt actgggttta gcctagactt agtttaatca tgttctaaat 360
 catcaattat caatgtttct ttcaacaatg ccttatctct gaatctaacc ctgtcttgta 420
 ctagttccct gagttcaata ctoggattca t 451

<210> 27170
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27170

ggggntgttg agtcgctcgt acgcgcnaat acanctcgga cctcgagatg ctatagagac 60
 gaccggctgg catgcactgc tagcttcgtc acacgaacag agtgtgaact gcagagttga 120
 gatcacgact ctcatctagt aggaggatta gcggtctntct gagaatttat agtgactaga 180
 ggaggatgaa acatgatgac tgctatgatt gtctatacta gctcttagac ccttatatat 240
 gttagcacca gtgcacctta taagcgtagg atcttcatcc tctgtggact acattctatt 300
 gtagtactga atagtgccta cttatctgta tcaatgaaga tgatagagga cgatgccact 360
 gtcagatgat atcatgagct ctataataag catgctaccg tatgangcac tcgttaatat 420
 ctgctgtgan gagcgatatc tttgaatggt gtgggtgata ctatcatgat ggatttatgc 480
 tcgtctagag ctttgaattc tcaggacaca tatg 514

<210> 27171
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 27171

tgaagtgaag agagagacaa gggttagaat agactattat ctggcagaag aaccaaggtg 60
aatagcagag tactgaagca aaaaccttag cttttaggag gattataggt ttaggagtaa 120
tttctacgtt cctagaggtg gatgagacat cccactact ttgtaatctg gtattctctc 180
tgacaccctt ctctttcttg tgaaaggtgc tcccttgtaa tggaggggta aaatcctttg 240
ctgggaaatt ctattgagta cttgatgtaa atacttatca tatctattcg atgatgtttt 300
catgtgtttg ttgtttctat ctgtgcttaa ttatcgcatg cttttggctt gatcacccat 360
ttgtatgtgc tgtaggagc ttttaactctg gaaaatgtat tgcacctta gatctggata 420
gaacagggct aggctatcgc ataactctga cacagag 457

<210> 27172

<211> 437

<212> DNA

<213> Glycine max

<400> 27172

ataaagctac gcgctgggtt aaatttttgt ttgttctcta cacaacgagc tgttgatgta 60
gacgtcccat taaccttga taatatcttg cctagctcct ataatgacta gcggcgccctc 120
tggctctata ttgatccacg cgctctatgc taatgctggt tatcactctg gaccgagaaa 180
atgcgggtaa gtcttactac gagtcactgg acccttacac tctatgttag gatgcagaga 240
ttcctcacat gtaatctatc ttgtcgaagt gaatgcattg atgggagtag gccctgtacc 300
atccttttgc ttgttgaaca acttgcgaca aagcatgggg agaatgacac atatattcta 360
tatcgtatgt accagccatg tttctccac ttcatgatac ctaagcttct aactacgca 420
ctgctctata gagcagg 437

<210> 27173

<211> 177

<212> DNA

<213> Glycine max

<400> 27173

actcagcgtc tgattcacca gatgcacat cgcagtttgt tttagtctcc gtctctagag 60
ggcatctctg ctactgctg agtctgagca ctatatgtgc agcaagtga cgaccatcac 120

gtggcctatc ataaggggtct ggcacaattt actgagagct tttacagaac actttgc 177

<210> 27174
<211> 172
<212> DNA
<213> Glycine max

<400> 27174

accagatgtg cgtgcgggat catgtatcac ctattctcag agtaatatac ttctgacgct 60

actgtatacc cgacaagtgg cagagcgtga tccagatgac atgacctcta tcctgacatg 120

agccttatgg tataggtctc atagtctgca tggttgctgg tgcactctat at 172

<210> 27175
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27175

tagtaaagct aagcactaac aatctccnc tttgtcatat tttgtctaaa acatacttag 60

acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttc cattatcaga 120

gtaatcaagc acagcggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180

agacatctca catgacatct gctttctgct tctgctccc ctgtctccat gcttactgca 240

acatcttcta tcagctacta gtcttctcca ggatgtcaag acgtctcctg tgacatcagc 300

tatctgctcc cctgtctcc atgtctttac tgcagcatct tctaatanct tccatcagtc 360

atcatcagca gcagcagtct cccctcana atcgtataca tacaactccn cctcanaatc 420

atgaatcatg catacatcgt atcctactgc catacatcat acata 465

<210> 27176
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27176

agggatgtga atcgtgacgt caggacatat cancctcgag ctgnnnnact ctgagccgac 60

ctgcgagccg cttgcttaga atcttaatga gagtgaacg aggagagcat ggaaacactt 120

gttctttctg ctgcatacct catggctttc attcaaagga cgttcacccat ggagtaagta 180
gtctctgcgg gccngattac catatcnggt gttagtcgct cacgcagtat catgacttgg 240
tttgagatat tgatccccctg aatgtacaac cctccaagtg atatcatacc cgctctgatg 300
tgacggagca ctggctctca attactactg tgcattgaccg tggatattta cctatctagg 360
tgaagagtca aatacaatct gaacagcttt gtgcatcgat tcaactgatat gtcataagata 420
cacttgatng cattgaacac atcacgatat gggactctgc gaacggtagc cgacatgtca 480
tcattgtcta ctgtn 495

<210> 27177
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27177

ccccccggca gaggggatgg accaacaggg cccccccagg gttgtgcctg agcggaaaca 60
aaccgcgcaa caaacggaac agaccagttc ttgccgagaa caaggagacg agagagaatg 120
aaacagaacc caagccacta ggaagaacat aggttacgag caaactcgac gaccacagag 180
gtggaacaca caggccaacg actaccacat cggggcaagc cactgccacc agccaaacgc 240
nggcgaaacg cgctccaacg gaatggacga ggaaccaacc gagttcggaa agccaaaaga 300
gtccacagat gcaaaggcca acgataacca gtgggcgtga gacgcgagag cccgatgcaa 360
atgtcaagac gcacattatg cccgacaaaa ggcttgacga ccaatcgac ggcctgagtg 420
aacgactacc tccgagaatg tagagcaaac caagagacgg agcgctccng gcgnggttaa 480
ccttaacaaa gggcaccaag gcggcg 506

<210> 27178
<211> 245
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27178

atcgtgctat caggactcct ggctttctta cataactgcc gttgccgagg ctactagctg 60
atctcatatc actcactcga ctagcatctg tcttttcctt cctactagat ccatatagaa 120

gaagcaggcc tgcactgcac tatatgcac gtgctcaatc gccattgtga gattacatgc 180
 ctttgcaacc accacctggt tacgagacaa tcatatctgt gctgtgagag cgngactatg 240
 agccc 245

<210> 27179
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27179

tgaaacctcc tcatcatctt catctatcat ggactctttt attttccttc taaaagggtt 60
 ggcaccccc taatcatgtg aagttccttt ggccgaagaa gggtttcact gcaattttct 120
 tcacatgtaa tcctgtaggc ccagtagaac taaataatat ttttaagcttg gcaggtctag 180
 tatgtgttat atacataata ataataatat ataataaaaa cttgcatgtt acccattata 240
 tgtagctctg tgaattgcga ttgtgtgttt ctatatcagt gtagccatct tgttggtact 300
 taaatattat tactcttatn gaaaactgtg acatanntaa aatnngatga agctctcttc 360
 taaattgtag ttaagagggt aaaaaatana annggtggtg gatacatgaa tgaatttggt 420
 tgcgcattat tgtgtccctt tttatgctta tccttt 456

<210> 27180
 <211> 245
 <212> DNA
 <213> Glycine max
 <400> 27180

accacogtga atgaataata gatggatacc acccgagact gagagtgtac tgatatactg 60
 tgcgatgtca gagttactac acgtgtgaca agtgcgttta tctctagaat cattaactgg 120
 cgtgacatac tatctggata tgactctctt gagatgcaaa cttgagaaga ctgccatgca 180
 agcctaaatc atatctacac acagctcctc tattagctga gctgacgacc ttaagaatct 240
 tgctt 245

<210> 27181
 <211> 448
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27181

tggaagatg catcaatgga ggataagaat gatggagata nagagagagg agggagcaca 60
aaattgaagg aataaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt 120
cattcatcaa agttacaaca agtgttacac atgcatctat ttatagacta ggtagcttcc 180
ttgagaaact ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
agctagagct tagctacaca cactcctctc ctaactaagc tcacgtcctt aagaatcttc 300
cttaagaaga ttcctaaaga agctagaact tagctacaca cacctctcta atagctaagc 360
ttaactcctt gagatgagaa gttagagctt agctacacac cccctataat agctaagctc 420
acncccatga acaaatacat gaatatac 448

<210> 27182

<211> 301

<212> DNA

<213> Glycine max

<400> 27182

atggtggatc ttgccggcgc ctgaaccatg cgttagggtga gagctgatag atactctaca 60
tgccggaggg atggccatac ctgccaaagta tcattccact agacggatat cgagccaacc 120
tacctgtata gctacgtgcg ctcttgcatc ctctcacatt gatcttacat gaaatttctt 180
acagttctcc tatcagcact cagtgtttgt ctgctatcat ataaggatgt ggcacaatgg 240
accttactga acctccttgc tttccttggt tgtagatgtc cagcaaatat gcgactatac 300
t 301

<210> 27183

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27183

agaacatgat gcccaaaagc acgtcgggtta tattaccttn taatgcttcc catctaaggc 60
caagttccat ggtggaccgt gccttcgacg gcacccgccg ggaggtgagg ggggagatcg 120

acctcccagt acagataggg cctcacacct gccagggttac attccaagtg atggatatca 180
agccgaccta caactatctt ttggggcgtc catggatcca ctcaagtggga taatacagcc 240
aattacgctc tgctttcctt catggacggg ttctttgggt acaatcagat aaagatggcg 300
ccagaggata tggaaaagac caccttcgtc accctgtggg ggatgttctg ctataaagtg 360
atgtcgtttg ggctcaagaa cgccggggca acctatcagc gggctatgat ggctgagntc 420
cacgacatga tgcaccgaga aatcgaagtc tatgt 455

<210> 27184
<211> 209
<212> DNA
<213> Glycine max

<400> 27184
gacatgtcat aatgactagc ttattaacat ggcatagttc gatatcttat gagtcgacat 60
gggaaaactg cgaatcgatg aacgagcatg accattgtac atcctgttta ttagtaaaga 120
tacattataa cactcattcc atatgacagg ttagatgggg atcacagcat tgggactgat 180
acagagcaag tgcattgggat gtaatgtat 209

<210> 27185
<211> 419
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27185

ntntatgtcc tgttcattnt ctagctnttc ttttctattg ctaaattgtca attgaaatgc 60
tttctaacat ggaattgatc attatcatag gagtcaagtt gggaaaattg tgaatagagg 120
aacaataatt ggcaaagtag aacctgttta tttctagagt ttctttcaaa cacttaatta 180
aaattccgtg tttgatggaa ttcacagag tgggaatgaa gtgaggaaat gttagggatg 240
taaagtcatt tacaagcctc cacatgatag attaagcttt tgggaaaatt ggtgcttgac 300
atggtattag agtgtttcca tcttatatgg cctcatcctg gtactattcc actgctaagt 360
ccccataaaa tcttgaactt ctctcacatg gtatcacaac ctatataatc aagtggcgt 419

<210> 27186
<211> 328

<212> DNA
<213> Glycine max

<400> 27186

agctttgtag tttaatcttt ccttgaagta gctacggtct tttctagtat ctttctgac 60
tccctatttg aaactctaac tcacccattt gtttgtggat gatagggtgg tgctactttg 120
tgtcgaatat cgtagtgttg gaggaccttt gaaagtcttg gcactctaaa cctagcaaag 180
atgcttctct ttaaggactt aatcattatt tttgcatcat tagttgcact agcaattgct 240
tccagccact tgttcgcttc cggcaagtgc accagatcgc acaagtagta taaaacggga 300
agaattgagt atcgaactct tgggtaac 328

<210> 27187
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27187

tgagggggaa gatgtttggg tgaagataac ttcaccctcc tcccttttaa tcattttcgt 60
gcagagggtg ctcgcccacg cgagctaact ttgcattaat tatttttttt tttaaaaaaa 120
acttctttgc aaacttaact atcctacggg tttgcgcttg tgttttttaa ctctaagtt 180
tgtgaacaaa ctaagcccat tcaactatga cttttagaca aatagatgaa tataaacaag 240
tacaaactta aaaggtactt gactgnctcc tagtagcgt tctttaacga cttgaggtgc 300
atgcggaacg atgatctgtt gatcatgggc ctacacctgc tcgacttagc cctaagccaa 360
aattgacata ccgctttaa tatgacta 388

<210> 27188
<211> 404
<212> DNA
<213> Glycine max

<400> 27188

agtttcttat tcaatgctca tcttggtggg gaagctcctt cttccatggc ttattcctta 60
atggatggcg cctcctctca cctcttttcc tttgacttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggatccc attgaagctc acagatcaag cttcataga agccccacaa 180

gcaagctttc atcaagtggc aatcagtgc caagagcttc aagtaggtgc tccttaaacc 240
 tccattaatt gtttttcttt accttctctt ccatagttgt ttcttcattt ttctccatgt 300
 atctcctcac atgtcttgtc ctagatgtcg ttaacatgat tcttttagatg ttccaccgga 360
 taaacttgct atagaagcta gatttgattt tctatggctc aaat 404

<210> 27189
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 27189

atgcagaggc ttttcaagaa agaaaacaag aaattgcaac cactactaga ggtaatgttt 60
 caatcaacct tataatataa ttatatggat tttagtggtc tcgtctattg ttgttagcat 120
 ttctaagttg ttaacatttt atgtaaggaa agccatattg tagcaaagag taaagtatat 180
 ttagcttgaa agaaatttct atatttatatg cttgtgatgc atgctcttag taagattact 240
 ttcatgataa atcctcctac attcgatata agaaattata gacaagagta gttttgacct 300
 ctctgactta gtgctttgac tgacctcttt gcatttgtcc actcaa 346

<210> 27190
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 27190

caacatggaa agattgacag taatgactag atcaaagagc aagaaagtcc cacacaatct 60
 gcgactcacg agggagcaaa agccagcaat tcggggaaca accacacaag agagcaccgg 120
 ggagaggggtg cccaatacct cccaaaacgg aaaatagcac acccaaaagg ggtacacacg 180
 ataacctagg agcggttaaca aaacaaacgg caacaaaggc cactaaggga 230

<210> 27191
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27191

tcaagcttgt caaggagacg aggtgaatag cagaaggaaa ttttttatat atcattttac 60

gncanccaaa tgaaaggtct gtgggtagaa aggattgagg ttgaggctgc tcccacgtat 120
gatatctaaa atggactatc ataacatatt cctgtgtcag agctacttat gtaaaggatt 180
attttacaaa actcaaattg taaaaacaac attcaggggg caaatagaca aagctgatac 240
aactggtatc cacaaataga agaatccaca caacagtaca cagagacgca gagagagaaa 300
aaggaaccag ctattatcta ttgattactg aaaatagtgt ctcagcactc tcctctacaa 360
tgagtttcct cataaaatac ctctgcaata tctactgcac cactatttat aataattaac 420
tcctagctcc ct 432

<210> 27192
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27192

ccgcgcctga attgagactt tagaaccttg agacctctag nanactcaag ctggcnccaa 60
aggagtactc accagaacca tttaagcatt ccctcgtgta gncacaggc aaacacatgg 120
gagtggaaag ttcaatggaa gagacacctt tttgaccacg aagttgagat ggcagcagcc 180
tttatggcag acattgctga gtttcaaaat caacctgcaa gcagggacct tctgctttgg 240
gggcctgatc ctgtggaacc tactcccaaa ggcagcatat aactgctaga aggacgggga 300
cagccatgtt actgaagata gtgactgcaa gacaatctgg aaactctaaa ttccacctac 360
agcaagtgct tttttttgga gaatattcaa gaaccgaatc cctccaagt taacttatgg 420
acgacacatg tggagctgcc ttctataat tgcccgtgt gtgatgaaga tgaggaaaca 480
tatagtcatg tccc 494

<210> 27193
<211> 395
<212> DNA
<213> Glycine max

<400> 27193

tcaagcttct agctgctcaa ttgctocagg ttgctgcatg gataggcaaa ggtctgtatg 60
gtggtcagca gaggagcaca aaccacaaac ccttgtgaca agtacagatt tctgaatcaa 120

ggccagctgg gttaccaagt tgaccaatgc atccagtttg ccttcaagct tcttagtttc 180
 agatgatgca aatggggttg tagctacctc atgcactcct ctaatgacta tggcatcatt 240
 tctggcacta aactgctggg agttggaggc catcttctca attaaatttc tggcttcagc 300
 aagagtcatg tctccaaggc ttcaccactg gcagcatcta tatacttctc tccatattac 360
 tgaatccttc ataaaaatat tggagaagaa gctgt 395

<210> 27194
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27194

ntaagagcaa ttcctttctt tnncttatta ttctcattat gttgatncaa nncattagt 60
 tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatggt agatagatct 120
 catgattcaa taatggttgt taccttgggt tgtcattccc tacttaagca tctcaaaact 180
 ttattgataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240
 tgtgtgaatc tcttttgcac gtctgtttg ctttcatttg gattcattct aaataattca 300
 tattcatgag ttaatgtatt taccctagat ctttttacat ttgttgtagc ttcattgtgt 360
 acttgctggg tatccacat atcttgtaca cttttacaat gtgataccct aaagtgtta 420
 ttcattccta aaaca 435

<210> 27195
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27195

agtttaagga ggagtatggt tagtaacaca taattttaca tattttgatt ggtgggaggg 60
 gttcgaattg gtctctatat taacagttct gtattttctt gtaggaattg agccctggac 120
 ttttactcag aagttaggag atgctgtttt cattccagct ggttgctctc accaagtcag 180
 aaatctgaag gtaaagtga caccctgggt gaatttggtt catatttatt gtaggcacaa 240
 tatattgttt tcttagaagt gtaggcataa tagtatcttt ggctactacc tgaaattaag 300

cctatgtcct tcattagcaa agcaagcctt tgtagaaagt gaaaactggt gattcatcta 360
naagtttcag ttcacttggt tattnnttaa cacatttga 399

<210> 27196
<211> 442
<212> DNA
<213> Glycine max

<400> 27196

ttggaagaaa aaaattatgc tgagaaggaa tctaactagt ggtttctcat tggtgattac 60
ttctacaaaa agctcactaa atgggagcct catgtcacia cctacctcat gacgggacga 120
caacagcaaa atagataagc caaagtgttc gtctcctagg gagaaaacgc gtggagtcgc 180
caccaatggt tattcgagga aaatgttaga aaaacgaaaa agaggtctgc aaatttcgaa 240
aagaagggtt catgagtttt ttacgcatga ggaagggtatt agcaccacacg caccgctcac 300
aagggacggc agcctttaat caagtgtgca caacgtgact tcaaaattat ttatttttcc 360
cttttatatt tctttatttt tttgggctcg acaagggggt gcccttgctc ctacatatcc 420
tcaggtgcga ggaggaattc ag 442

<210> 27197
<211> 357
<212> DNA
<213> Glycine max

<400> 27197

atcttgctaa agaacttagg aacaatcaag aacaagcttc ttcgcacatc gattgcgtgt 60
atgatatcca ctgcacatgg tttgaagtac aggagacctt caatcctata atgctacatg 120
gcggaacaaa gtgggcagtt aacttgaatg gccattattg tcaatgcgga aggtattctg 180
cgcttcacta tccatgttca cacattattg caacttggtg atatgtgagc atgaactact 240
accaatatat agatgttggt acacgaatga gcacatctta aaagcatact acgcacaatg 300
gtggcctctt gcgaatgaag cgacaattcc tccttctgat gaggcattga cactaat 357

<210> 27198
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27198

tgcaactgccc anagaggaca actcttcata atacgtttga accaccattg atgtccctta 60
 tgatgtcggt cagtatctca aaaaagccta cgatgatttg gaagaaccct tgacctgttt 120
 tctcaaatct tccaaagttg attggcattt ctatgaccca tatatgttac agttaccaaa 180
 aaggttcaaa gagaaaacca aatgggtgtgg aatagtaagc cccgggtggg caccatagtt 240
 gaaggatttg agccacaagg cagttggtgg ggttttgact cactctgggt ggacctctgt 300
 ggtggaggtt gtttagaatg aaaaacctct agttttgtta atgtttcttg cagaccacgg 360
 attgaactcc aggggtgttg aagtgaagaa gatgggggtat tcaattccta aggatgaaca 420
 agatggatc 429

<210> 27199
 <211> 84
 <212> DNA
 <213> Glycine max

<400> 27199
 agcttgtgat gcttaaggaa gaaactttat atagctgctc gtgcctccaa atagaatatt 60
 cataactaaa atagcaaggg cgag 84

<210> 27200
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27200

agcttgtttg cacgaattta atttaataac ttacttttta caaattatct taagtatctt 60
 gtgaaaataa gttacttaaa ataaattata tgttataagt tttttttcaa tttcattggt 120
 cactaatcta ttgaaactt cattttcttc ttttacttaa ttttaaaaaa aaattattat 180
 ttcaacattc ttacaaacac tttgaattaa tcttttatgt catttgatat ttatcactta 240
 acttatcaat taatcttact aaatactttt aattaaataa gttagtttat aaacttctag 300
 ctattcaact cctaagttat agcttataat aggggtgttc gtgagccagt tccggaccag 360
 ttttgaccaa atttangatc taacctaatc acaattgatc 400

<210> 27201
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 27201

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ctcaagctta tgacctttgt cacttgagag ccaaagaaaa accattcaat ttgtgtgata 60
taaataaatc ttgcgatatt caatcatcac tatcataatt ttgcacgaat gtaacacaat 120
ttggtggcat tctaaaactg ttgagactat ctagcaattt cacccaagat tatgacattt 180
tagtataata tataatgtca cacctatcta gcaatttcac ccatactggt gaaacttttc 240
tatactccca ttctttcttt tttagtggat agttaaaactt ttcttttatcc catcacatat 300
aattccttct ctcttattga aggttgtcca cacattggta tacttagtca tcttttcttt 360
cattctacat accttcttta tgataggcta taagatcttg ctagtctttc ttttttctg 420
ctcttatac 428
```

<210> 27202
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 27202

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agcttcagac tgctcaattg ctcttttttg ctgcatggaa tggcaaaggt ctgtatgggtg 60
gtcaacatat gatcaciaaac cacataccct tgcgacaggt acagatttct gattcaaggc 120
caactgggtt accaagttga ccaacgcac cagtttgctt tcaagcttct taatttcaga 180
tgatgcagat gggttttag ctacctcatg cactcctcta atgattatgg catcatttct 240
ggcgctaaac tgctgggagt tggaggccat cttcttaatt aaatttctgg cttcagcagg 300
agtcatgtct tcaaaggctt caccactggc agcatctatc atacttctct ccatattact 360
gagtccttta ttaaaatatt 380
```

<210> 27203
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27203

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agctatcatt tctttctccg tcattgaggg aaccacttgg gctgccaaat ccctccacct 120
ttgggcgtat tctttgaaag atccatgccc cctcttgcac atgctctgta gttgcatcct 180
atccggagcc atatcagaat tgtactaata ctgcctaacg aagtcaacca ttacgtcctt 240
ccaagaatgg actcgggaag gttccaagtt aatgtaccag gtaacagcta cccagtaag 300
actttcttgg aagaaatgta tcaccagttc ctcatctttt gtgtatgccc acatcttccg 360
acaatacatc tttagatggg tcttggggca agtagctccc ttgtacttat caaagtctgg 420
caccttgaac ttgtgatggg t 441

<210> 27204
<211> 378
<212> DNA
<213> Glycine max

<400> 27204

agcttctagc ttttcaattg ctccaggttg cctgcatgga aaggctaagg tctgtatggg 60
ggtcaccata ggagcacaaa ccacaaacct ttgtgacagg tacagatttc tgattcaagg 120
ccagctgggt taccaagttg accaatgcat ccacgttgcc ttcaagcttt ttaatttcag 180
atgatgcaca tgggtttgta gcttcctcat gcactcctct aatgactatg gcatcatttc 240
tggcactaaa ctgctgggag taggaggcca tcttctaatt atatttctgg ctacgcacga 300
gtcatgtctc caatggctcc accactggca gcatctatca tacttctctc catattactg 360
agtccttcat aaaaatat 378

<210> 27205
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27205

ntaagagcaa ttcctttctt tntcttatca ttctccttat gtatattcaa tctcattagt 60
tccatttcat gttcctgtaa ctttccaaat aaagtagcaa gagacatgtt agatagatct 120
catgattcaa taatggttgt taccttgggt tgtcattccc tacttaagca tctcaaaact 180

ttattgataa gatcttcatt tgaaaatatt tttcctaaag atgcaagatg attaattatg 240
 tgtgtgaatc tcttttgcac gtcctgtttg ctttcattag gattcattct aaataattca 300
 tattcatgag ttaatgtatt tatcctagat ctttctacat ttgttgtacc ttcattgtgt 360
 acttgtcggg tatcccatat atcttttaca cttttacaat ttgataccct acagtgtcta 420
 ttcattccta aaacagatgt aat 443

<210> 27206
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 27206

agcttcaaca ttcaacttcg agcttctcgt tatattatag gactcaatta gacatccgag 60
 taaaaagtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtctcc 120
 atatattacg ggactcaatc agacatccga gtaaaacgtt attgttgttt gaatttgctc 180
 aaagcttcaa cattcaattt cgagcgtcta gatattatc aggactcaat caaacatccg 240
 agtaaaatgt tactgtcgtt taaatttgct tagctctcca gctttaaatt tcgagcgtct 300
 cgatatatga cgggactata tcagacatcc gagtaaaaag ttattgtcat ttgaatttgc 360
 ttagagattc aacattcatc ttcgagtgtc tcgttatatt acggga 406

<210> 27207
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27207

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 cgtaatatat cgagacgctc gaaattgaat gttgaagctc tgagccaatt cacacgacaa 120
 taacttttta ctcgatgat tgattgagtc ccgtaataa acaagacgct caaaattgaa 180
 tgttgaagct atgagccaat tcaaatgaca ataacttttt actcgatgt ctgattgagt 240
 cccgaaatat atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac 300
 aataactttt tactcgatg tctgattgag tcccgtata tatcgagacg ctcgaaattg 360
 aatgttgaag ctttaggcaa attcaaacga caataactnt ttactcgat gtctgattga 420

gtccccgtaat atatcaagac gctcgaaatt g

451

<210> 27208

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27208

agctttgtgt gtgcatttat ttgaactgtg taaaatgtaa ataaagggtg tctattttgc 60
attctttaca ctgcattcta agcaccacag ggtttgagta aaaaaggggc cctatacccg 120
ggttcatggg aatttaagga gtggagggtga atctatcatc atgctangtc tccgacttgc 180
ttgataatag tgaaacctcg tctagagctt tctctcttta taatgtgttg tcgctggtat 240
tccataccgc cacaatatta ttatcttgag tgatgatacc tctagaaaac agccgtgtga 300
gtcatgaatt gttggggagt agttattaga gaccctaga tattatccta ggttcccaca 360
taggggcaaa gagcagacac gtcctgtgcc attcgttctc a 401

<210> 27209

<211> 419

<212> DNA

<213> Glycine max

<400> 27209

tcgaagaggt gaaaggaata atcacgggtt taggcttgat cttgaaggac gagctaaagg 60
cttgccctta gtcgaaaaga aatttgtccc aacagttaag cgagactgaa gggaatatgt 120
gggccatcat cgatgagtgc aaagagaagc taaatctagc agcgactcac gagcaaaggc 180
tagaggatga gtacgccaag atatcagtag aaagggaagc aagggaagg gtaattgatt 240
cattgcacca agaggcaaca atgtggatgg accaatttgc tcttactttg aacaagagtc 300
aagaacttcc ccgattgcta gccaaaggcca aagcaatggc ggacaccaac tccgcccccg 360
aggagatcca cggacttctc agctattgtc agcatatgat agacttaatg gaccatatg 419

<210> 27210

<211> 236

<212> DNA

<213> Glycine max

<400> 27210

tcatacttga caaaaagact ttattgtacc cttcgattga ctgtacaaac tcaagtaaac 60
cttgtgacac ttgtcatatt gcataacata agtggctacc ttttcctgat agcctgatcg 120
accactctta aagatctgat ttgctgcaca tggatatatg aagtccttat gtcatactt 180
cattacttgg tcataaatat tttcgtacta ttgacgatga caaatgcata tataca 236

<210> 27211

<211> 339

<212> DNA

<213> Glycine max

<400> 27211

tgggtcaaaa gcatactccc gttgaccccg agccagagct catgattacc atgaactcta 60
tgcagttata ggtagagcaa tgaaataata agatatatca aataagattc ctctatcaat 120
gtctataatg gacaaatatg attcctaattg ggcacgactg gcaatatttc ttttttggac 180
tccgacttat tatatTTTTT aatcacatta ttcaagttcc cacacctcta acatttgatt 240
acatggtaga atcagcgaac taattgcaca ataatgaggt atactggtgc taatattaag 300
ctcatttgct tcttctccaa agttaaaata tatcgcata 339

<210> 27212

<211> 337

<212> DNA

<213> Glycine max

<400> 27212

agcttctact acttgaggtg tcttgcaatt tagactacct tggaatactt ctagttctgc 60
tcggcttata gaaatcaaaa cggacactat ttcaggcttg taattgatgt gcattatggt 120
ccttcacttg tctatttcaa gtgagcccct aataaggatt ggtgattcca agctaggggtg 180
aatttctagg tttatgatgc ttaaataagt gtgttctatt tgattctgta tgtgttatat 240
gtctagctag acttgggtaa cgcaagggtt gtatcaagga tccttgatcg tacttctatt 300
actattactc tatactgaag agacaacaaa gaagtaa 337

<210> 27213

<211> 426

<212> DNA

<213> Glycine max

<400> 27213

tggtgtgaga tcgtcggttg gtcggccact tccacattgt tgtgagaggg agatttggtg 60
ggctcccttc ctatgtggag taaagacctc atttgtctca cttatttaag tggagaaggg 120
tcagattaga gagacataca cagagagtga ctcatttgag aaggaaacag ttagaaatca 180
ttgagagaga aatgagaggg agaacattgt gattttcgca taccactag agaacatttt 240
tcagattgca acttcagatt cgtccatcgt tggatcagat tgatttatgg acagcaggtt 300
ctacgcacat gatacttcaa attatccggt tggatcgtga aaacgatatc aagagagaga 360
gagataagtg tctcatattc tctactctat attatgggat cttatcttat ctctattgta 420
ccaatt 426

<210> 27214

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27214

agctttaaca attcaaactt tttttgaagt atgaatatgg ggcacctcaa gatgggatga 60
gaccaatatt cctctaccac tattctacaa tcatcatggt ctaaccacaa gctcatgaac 120
caaaaatggg aagcaagaga tttttgccac tgcaacaaat taagcagaag agggatgatga 180
tctgattata ccttggttaga gaagaacaag ctatagaatc tcaataggat agggattcct 240
tattacatat ggttctatct aatctcatgt taatatgggc tctacctcta cgcccatttg 300
accaaatggt accctttgta ggcaaagag tgagcaggta gtgatcagac caagcccata 360
actcattaca tgaagctngc aacgacagtt ctccccctc 399

<210> 27215

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27215

tagctgctgc gctaagctta atctgcagat taaatatttt gtgtcttcaa gctaagcgcc 60

agtctactgc gcttagcgca tgagtaaaat ttcataaggc gcactaagct cagcctgctg 120
 cggtaaagcat ccaatcaaaa attcagtttt atttttatgt ttttgtggaa ataacctgtg 180
 ttaatctctt gtgttttgtc ttatatTTTA cagatggcat ctaagaaaag gaaggctcct 240
 tctacaccta cccaggccag atatgacaga tccaggttca catctcaaaa agcttgggag 300
 aggtatacag acattgtggg gcctagaaaa ctactaccga agaggaatat gatattttat 360
 gacactgagt tcgacgagtt caaggaggaa ctcgacagaa ggcactgnga tgaggagttg 420
 atttatnta atgata 436

<210> 27216
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 27216
 agcttctagc caaatggact taccttgaat taatcccttt gatagccctt ttgagccttg 60
 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
 atatccttaa ggaatTTTtg agctttggaa ttgttttggg aataagtgtg gggggTTTTt 180
 gtttcattgg acaacttgtt ttgttggcta tgcttcatga tgcatttttg gccatacttg 240
 atgtacattg tatattggtt aaatgttga catgctgaat gaaatgttgt ttctcaaagt 300
 ctaaaaaaaaa aaaaaaaca aaatatcga aaaaaaattc ggacagacaa aaagaaaaca 360
 aaaagcaata aagttga 377

<210> 27217
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27217

atggaggaag agaatgagag agagagaaag aaagtggcgt gggaatgaag gaaagagagg 60
 gagagaagtt taactttgaa gtgtgtctca caggactcta actcatcaaa gttatcacia 120
 gtattacaca tgcttctatt tatagcctaa gcagcttcct tgagaagcta gtgttacacc 180
 cttccaatag ctaagctcac cctcatgcca aaatacatca aggaagaaag cttgcatgag 240
 aggcttcctt ggggaggaag tgttacaccc ctccaatagc aaagctcacc ccatgggaac 300

acacacccct ccaatagcta agctcaccgc cctccacaat acaaaanaaa agaccctact 360
 acaaagacta ctc 373

<210> 27218
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 27218
 agctttatct ccacggcata gaatgattgc acttcatgct ttcacatcat ctctgatttc 60
 tcctttgagc tttaaagaatc agacatcttt tcttctcctt taagagcttc tgcacagcca 120
 tgttgaatca agatttcttc catcttgatt ctccataacc cgaagtcatt ttccccctga 180
 agactttctct atactatact gttgggtgttc ccatctttct tgatcttgat cctttttttt 240
 cccacagac tgcaccactt gttggttctt tgtaaaagtt ctgcaactc 289

<210> 27219
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 27219
 gccaggtgga cacacttttg tttacaggtg aagcgacgtt tgacagaaag atgttgattt 60
 gacaattctg ccctatttga ccattggaaa cacattgaag catgtgtttc atttttcttt 120
 gttgcagtga gtgcacacaa gcacgctact cttgcatatg tgtacccgta gagtggacac 180
 atactgagac gcgggtgcgg attagtgggg tgattgggtg caacttcaag catcatttca 240
 ctctgcacta ccgaaagttg gcctccttaa ttaatgacgt tgattttata caccttgatt 300
 ctacttcttt tctgacttc 319

<210> 27220
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27220
 agcttatttg tgataaaatt gaagtttatt ttcttatctt tccagggact actcacacac 60
 tccattttta gttctatagt gttctatagg ccctgcacaa ggcagatagg tcaagtaagc 120

acaaaaatcc gaaaataagc cataattatc aattaaactc aatcatttgc ctaagatcaa 180
aactaagtta aagtgagaaa ataaggggtca aagagggtcc aattgagcta agaagaatag 240
aaaaatacta aactacaaat gctcaatcat cataacacaa gtaatagggg tctaattaga 300
agtcgtacaa tgctgtgaaa caccgccgact atggggttgta ctagcagcct ggctagcttg 360
agtgacctat ggtagtcgtc ctccatgttg gtctcgtcga t 401

<210> 27221
<211> 446
<212> DNA
<213> Glycine max

<400> 27221

tcttgatag gattcttgat gctcgatctt gatgtcttgt atcaatttct tgggcttttg 60
gcatcatcaa aattgcctgg ttcacatca tgaagcttgc ttctacaatc tctccctttt 120
ttatgatgac aaacctaaaa tcaagaaaca catacagact ctatcttcta atcgatcact 180
cacttaattc cccccctttg ttttttgagt ttaaacttca cttgaagtta agttatttaa 240
ttatatgagt tcttgattca gtcccaatgt tttctcccc tttggcatca acaaaaagcc 300
aaagtgcgta tagagacatt aaatcataca caaactcata atcatccaag cattgtaatc 360
catacaacaa gcaaggagga caataattca tacataaact aagccaggaa gataataatt 420
catccattaa ctataataca atgtca 446

<210> 27222
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27222

agcttgctcg taccatgaac gttgcactgc taggcacact aatatgaagc cttttgcatg 60
agatggacaa accttctagg ttttgtccta taaatatcta caagtgaatg gtattcttaa 120
tgttactcac tccatagatg attcatatat gtagcaaaga attttgaacg ctattcaggt 180
cctccatgat ggcttcaagc caaggctagg ggctgactag tcttctttat ggttttcaga 240
ttgggtagca catggtcctc ttggccatca gtttcttatg tccatatgaa tgactcacac 300

ttaaaggtga ttgatcgatc tgtgtcccan acccaatgga gtatgggact tgaacgaact 360
 taatgttcct cttcccatag atatataaga ttatatcaag agcc 404

<210> 27223
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 27223

tatagctcta gcagccaggt tgtaaagatg atatctcttc ctcttgcat aattgtcact 60
 caagatgcta gccagtggat ccttcctgag attgggtcaag ttgatgtcag ttgtgatgct 120
 tcagttcctt aattggggag tctcacaact tatgggtgggg tgcttcatga ttatacatga 180
 aattttctgt gtggactcaa atccaatatt ggagattcat ctgtgctgaa tgtacaattg 240
 ttgactattc taatgaatct tgcctatgaa attctatttc cttttaggaa tggatcatgg 300
 aatagtggga aaagaactat tacattactt ctattgtagg ggctaataat gggagctcta 360
 tcatggatgat gtcaaaaggt ttgttttata aaagtgaact acttttggaa tctgatcttt 420
 attgctgaga tattactttt atac 444

<210> 27224
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27224

agcttatccg tttacaatt gcaggtcatg gagcaacaaa cttcctcagc cagtatgggt 60
 ctcaatcaat gtgccattcc tttgtttggc tncgtcaatg atttctcaa atccttcggc 120
 accgatttgt cttatctggt ggtngatcca ctgcacgccc agaaagaggc gaagggtgccg 180
 ccgtagaact gggtcatgac gtgcagcagc gcgtggggct cgcgtgttca aatgctggtg 240
 cgggataatg gtcaacttca caggatgagg gagcgggtca taaatgctga agagcccga 300
 aagatttgag tgagtgttat attcgtgctt ttacttgact tag 343

<210> 27225
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 27225

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tgccttccct cataattaan atcataaatt tcaatcttca tctttacacc tttaaaccctc   60
actgacccat gacctaagcc tcatcgacct gtgctctaata gtattccttc actcaaactct  120
tgcaaaaaac cataaaattc ttaaacccttc aagcgccctc ataaatccct tcatgacaca  180
aatttgatgg atactaaatg atttaccat tgataacaat tgataagaac ctgagacatt  240
gtgtttcaat gtatgccttt tgtgcaccca cataaacccc aagtgtctta tcagttggta  300
tatagctttt caccatgcct caggctctca gctacaagtg aacagcatgg ttggtgatgc  360
ctggcattat attatntgct taggaccagt caaagtgcta gtgcatgacc aacttgcata  420
tatgttgggg ctgtggagtg tg                                           442

```

<210> 27226
<211> 328
<212> DNA
<213> Glycine max

```

<400> 27226
agtttgacat tttattagaa gaggccatct tgcatttcaa catctttgta atgtttgaat   60
cggcgtaata gaacctaga ttagataat aaccgcactt atgcaaaggg tggtaaagtt  120
ggctatccca tctgtgatga atgatggcaa aagatattct tatacttctc tttattatca  180
ttgaaagctc tatgaatggt ctcttggcc ctatccattg cctgataaat gaaactcatt  240
gtatgttcat tttttttcgt gatccaccaa cctcattacc cttacaagag gcccatagt  300
ctttaaagtg aaggccacat caaactgg                                           328

```

<210> 27227
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27227

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tctaatagta tatcaaaaga gagaaatggt agcaactttc tcttttaaca ctttnttgaa   60
cacactttct agtttctact atgaaattta ttgaaaatca caaaattttt gcaggtctta  120
cttctcattt aatgattctc tctcctgatt ttatggtttc caatagattt caaccaatag  180

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tgaagtgtta caaagattaa cctaaccttt cttgctttct cagcatacat caagaagagg 240
attatgtaca caagctgaaa ggctgctcca atagaattaa cagttgtcac caagagatta 300
tcaggtgata taaggagtgt gccataccac aagcagatca tgcagttcaa gagagaataa 360
atatatggca acccggagaa catatctgtt gacccatttc ggatgattct cctaaatgtc 420
ggtctacaaa tcaaaacaga ac 442

<210> 27228
<211> 248
<212> DNA
<213> Glycine max

<400> 27228

agcttgtgat tataaaggca aattttcact gtgatttttt ctctctgttt cttcttctgg 60
ccatgaaact tctctttgtc acttggtgaa tgagccccac ttaaaaagtt tgaattttga 120
ggagaattat ctttctgggt gtttttcacg agagcaagat cttgaagtgc ttgggggtta 180
tgtggaatcc tctgtcttgg gttatggacg ctgctgctat aatggcaatt gcacttgccc 240
ttggaggg 248

<210> 27229
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27229

cttgcttgaa gcatatcgca aaaatgggag aaaattacat atatttttgc aaccatttaa 60
ggagaaatta aacaatgcac atatataac ctgatgacat gtgtattgaa ctcagcggta 120
actttcatgg ggttcggctt gtaagcttgt tttgcggctt ctcttgcttc ttttaatcgc 180
ctatgccaga catgatcgaa gtgacctatg ttagcgtaa gggtagggaa tatagcaaga 240
caaattacgt aaaagaatag caaactgaac ttgctagttt ccatgactat tgtttctttc 300
tcttgaagat ctttaatcgt gtgcgcctta tgttggttat tgtgtgcttt tcaacctata 360
tatntattta ttttggcatt ttaagttctc ctcccgact ttgcgctaga cccacatata 420
aatggcacta cgatac 436

<210> 27230
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 27230

agttttataa agtccttctg attctattta tacatttttt ttactttatg gcatgagatg 60
 aagtacatag attggagctt ttgcaaattt ttattaatga atagcttaaa cactgtggat 120
 taagctactt tccttgatat ttgtattatg cctaactaca tctaattgta cacgctacat 180
 tatattcttc tctttggata actgcatgcc ttgtataaga caagtgaaga gggcattttt 240
 gtttcattct cttatgatgc aatcattaac tttctgtgca tacacctttt gtacatagtc 300
 acagcatggt attgtcactt gaggaccagt gaactgttct ttatttgctt aatgacacgc 360
 ataactgtac attcgggtga gttgcgatcg ataaatac 398

<210> 27231
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 27231

aactcccgct cggcattaat tgctccaaag ctgtttaaat gatacgtgtc gcaggcggca 60
 ccagaggagc atataccaca gagtcttgct acaggtagat atttttgatt catggctagt 120
 taggatacca ggttaaccaa ggcgtctagt ttaacttcaa gcttcttaaa ctcatatgat 180
 gcagatgagt ttgtggctac ctcatgcact cctctaataa ctatagcctc atttatggcg 240
 ctaaactggt gggagtccga agccatcacc tcatatatat tcctggcttc agcatgggtc 300
 atgtctccac ggctccacc tgctcagatct atcatacttc tttcatgtac tgagccttgt 360
 aaaat 365

<210> 27232
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27232

agcttggtac aactagtatt ctttgtccta tcacaaatta gaagatttgt tggtttgatt 60

ttgcacaatg actaacacac tattgtttta caaatgaata accaatttct acaattagtt 120
 tttttctttc aagataaaaa agtgttttga gagcttttct aaactttaca agaatttaag 180
 catagtgett tttacagaaa aaatttgaac aatttagcgct tcaaaaacta tatcatgtgc 240
 tcaaagcttg atatttatag gcctccttga atcaagtaat tgtgttctct aaaaggacat 300
 atttcctctc ttaagcttac atctaaagaa tgtgactatt gnggcattaa atgcacacat 360
 ttcttgaagc tgagaaacca ttcttcattg cttagcgtg 398

<210> 27233
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27233

tgtaggatta tggngtatcc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aaatcgcgca taaatccacc atcccctgtt gccacactcc 120
 aactgagttc acgtactccc acatcctcgt ttctctcaac atcggggtccc caaaaatcct 180
 cccaagcttc cccaacatcc aggtaattca acatccaaat catcacaac taacaaacca 240
 agcaaaacag ggcaaaggct gaaaactctg tccaaaactc aaaccaaaat tatagctttt 300
 tctcacttaa agaccccagt aacatttctt tcgttccaat tcgctaaccg ttggatcgac 360
 tcgaannatt tactggaagt ctctagtaca taagcctaca ttntgaccgt tgggatctgc 420
 tagcaaacat ccaaaaactca ttc 443

<210> 27234
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27234

cccgcgatta cnactangac ttacgaacnc ngagacacta cannaaactc ccgctggcct 60
 cactacttgg cggacaacgc gcaaatctca tttatactc tacagncgga ccacaacaaa 120
 gatcccttgc actgctcttt tcacatcttc ggtcgaacga gtcatatata tcgggtacga 180
 tagcgatcaa tctgactgtt cttgcgggtc tagaaacgcg acaaaagcgt cgatcagcct 240

ctaggaccac ccacccatcc acatttggac agagaactcc tccgaagatc aaaagtgcta 300
 cgatgcctat gaacggggcc catttacctc tacctatcaa gatacgtgct tgtgtctaca 360
 aacaatttct ctctactcc atccagecca ttctatactg gctttctgtg gcctaaactcc 420
 tctcgcaata tttggactat cctacatact ctacctaaca aggcgataaa ccctgataag 480
 agggatggct tcatcccg 498

<210> 27235
 <211> 575
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27235

gggcagcgct agtcaccgcc ngacgtanga ntacgaaaac agaggcgaac acctcaaccc 60
 ccnccccccc ccccccccc cgcgagcatg gcatcgatga catgggagac ncngagacac 120
 cacanaaacc caagccgana gcggagcaag ccgaaccgca agcaatttgc ggattaactt 180
 tatccacaag caacgcgcag agcaacggga tccgcaacaa acgcacggat caagtagacc 240
 caaaaaccac acgtggagca acgagaacca cacccaacaa gcggagcaac aggggcaact 300
 acagaacaac cgccgagcac catcgtcaac caccagacac aggagagcag aggcggacca 360
 agcacaacga ggagggcgca caacgaacgc tccaaacaaa ccagggggca cgcaagcctc 420
 ggcacgcaag gagaaggcg caccgagcaa cccccaccgc aaacaaagca ggaagaccgc 480
 gcgcgaaccc aaccggcgca gaacaaagat aagcgacccc gaagcaaaag cgaaaataga 540
 caagacgccc gcgacggcac cacacacagc acacc 575

<210> 27236
 <211> 180
 <212> DNA
 <213> Glycine max
 <400> 27236

ccgggaactc acagaaacct gcagctgcaa tcttacattc tggactcctc ataggtgttg 60
 catgagaata catgctctat tatgatcttc cactccaagt aagcccccg aacattcttt 120
 cctttacaag gaagaaagct gaaggtaata ccatcaattc gggattgtct aggaacacca 180

<210> 27237
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27237

acactatgga aaactcccg c ttgacctgcc ccttgatata ttngagggac ttatggatac 60
 tatgaatgac aaattccctg ggataaaggt attgttgcca tgttttcaaa gcccgacta 120
 aggcatacaa ctcccttatca taagttgaat agttaagggt aggaccactt aacttttcac 180
 taaaataagc aattggatgg ccttcttgca tcaacacagc cccaatccca acatttgaag 240
 catcacactc aatttcaaaa gatttttgaa agtttgcaa cgcaagtatg ggggcattag 300
 ttagcttttg cttaagaaca ttgaaagctt cttcttgttt ctctcccat ttgaaaccaa 360
 catttttctt gagcacttca ttgagaggtg ctgccaatgt gctaaaatcc ttcacaaatc 420
 gtctataaaa acttgctaag ccatgaaaac tcctcacctc ggg 463

<210> 27238
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 27238

agcttgtctt caacaaataa atcataatca aatttgtgat cttcaaagcc caactccagc 60
 ttctttctcc ccatatccac tatgcagctc gcagttagca tgaatggcct tcccaatatt 120
 acaggaatgt cattatcttc acagatatcc attaccacag agtctgcctg ttttactctg 180
 accagcacat cttcaattac tccatatggt ctggaaatgg agcgggtcaac aagttgtaaa 240
 gtcatcctag tgagcatgat ctctactct cccaaccttt tgcacatgga gagtggcata 300
 tagctaatac tggctcccat gtcaataaga gcctttccac agtgacttct tcaattgaat 360
 aaggaatggt tacactccc 379

<210> 27239
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27239

ccgcgtacac cctgcctcgg caacgtcggg cggtagcttc cccccccccc cccgcgggctg 60
aatgagactg caacnctgca ncagngacct ataaaaactca gctctcaaga tccacccccca 120
tataagcttg tcaagctagc tgccatcact gcggccctat cctattcgag aagacattcc 180
tttacttgat tcacatgcac agaggacgca cgctaaggca aatttgatga aatctcgaca 240
acatttcgca ttgggtctcca agtacacgac atgacagcgc ggacacgaat tcaccacgat 300
caacgaagca cccgtagaac aaagcttcat gcactaaacc gagatttaat cagataaaca 360
caacctactt aacctataag caagaattat gaataccaat aggccttccc atactgcccc 420
acagacaatt cgagattcaa tacgatgagt aacctacact atccatattc atcggcgggac 480
taccagctca acagacgacg tatgggttcgc tcataatgca accaattcta atacacg 537

<210> 27240

<211> 378

<212> DNA

<213> Glycine max

<400> 27240

agttctgggtg ggacatcttg acttgctttc caatctgaca ttcaccacag attctgcctt 60
cttctatddd cagattggga atgcctctaa cagcaccttt gtcaatgatt ttcttcatgc 120
ctcttaagtg cagatgtcca aatctttgat gccatatddd gacttcatct tctttggaga 180
atagacatgt ggaggagtaa ctgggtttctt gaggtgtcca taggtaacag ttgtcctttg 240
acctgctgcc cttcattaga acttcactct tctcatttgt caccaagcat tctgactttg 300
tgaagttttac attatatcct tcatcacaca gctgactgat gctgatcaag tctgcagtca 360
gtccttcaca gcagtact 378

<210> 27241

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27241

gttcaagacg agcggagctt ttttcttctc attattagct cncaccccat aattcctcca 60
aatgaggggca aatttgctct gaaccaaaat ttccttttat gaatgaagct cttctacaac 120

ctaagacaag gttgaaggag ataaacgtac aggctcaagg ttcaatcaaa caatcatact 180
 ttcagctcaa aatgggtaca agggataaat caatcatgca caaagtaagc tttttaggta 240
 agtggctatc ttcaatcaaa acatggcctt catcgtcttc aatttcaatc attctttcca 300
 tgcttagaga ttcattgcaaa aaccattact taatgttagt cattctctca caattaaaga 360
 tcacactctc accgggttgc agcaaagtgc ttccttcaca atcaacctga caaaccaact 420
 aacat 425

<210> 27242
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 27242

agcttcttca ttaatatata tatatgagaa taaaatatga aggaaaaaag cttcttcaga 60
 caactaaaat taacttatgc attaggtaaa atcagctttt tttgcaaaaa gatgattgta 120
 acttatgtca agttaatcgc agcttatggg agaaaattta tttcatcttt tttcttttta 180
 ttttcttctc ttattagtgc ttatggagaa acttattcta acatggctctt aatcaatgac 240
 attacgtttg attggaagac aatattagat gtacatgatc tgattaaaac tgggcagtta 300
 atacgatgga tggtaattgc catcagtatc ctctctctct ctcttatata tttgtgcgtg 360
 tgagtgtttt ctagtctgga tcttgagacg cgtctact 398

<210> 27243
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27243

tcataattctt gaattgactt gaccacatct tcattgttat agttttcaat cttaaattggc 60
 tgatacatat atgtgtgtct catttttact cactttgatc gcgcttctta acaagggtgt 120
 tcatatgtat attttacgct ttgcagataa attttcaatt tcggctaaag cttccttcaa 180
 tgcaataatg aggatgaggt ggataataaa caaaaaatgc aacagtaaaa ggagaacaag 240
 gggatatatgc attgatttaa acaccttttg taacttattc attaacttan agtgagtatt 300

ttcagtttgt atgttgctac acgaatgata ggaaaagtta agcatttaga aaattttattc 360
atgttccctat aaagacacat agctaattga gatctacaat ttattttggg gatacatttc 420
tttatacata gcaagataca gc 442

<210> 27244
<211> 403
<212> DNA
<213> Glycine max

<400> 27244

agcttattat tattcagtga aggatgcgtc aaatcccaag attcttgaag tgtccccacc 60
tctccgtttc tttgatcaac ttgaggcctt tacctctata taaaccactc ttaatgctca 120
tttcccttca tctaaagctt ttagttttct atatcactct caactctgct tcttttcaat 180
cagttacatt ttctttggta ttccaatggc cactgttgaa gtaactctac taaaatactt 240
gctactctac tctaactcac atgggttgctc agttcagaac ccgcaaataa attcccttat 300
gttaattcta atttggaatc aatttctttt attttcagct tgatctcaac catatccttg 360
cttcgtttat tttttaatca ttttttatca tcataccctt gct 403

<210> 27245
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27245

ttgaagtact acgaagcagc aaatgaagag gacctcttct aatctcatgc tncatcaaatt 60
tagtctcagc ttcaaatttg gatacatgtg tgcaaacaga gccattgcac aagctatgag 120
agacgaagac ataattcata taattgactt ccatattgat gaaggaagcc agtggctcac 180
ttagattcag gattttgtag ctaggcttag gggggcactc cacatccgga ttacggctat 240
tggtgattca acatcatctg atgcaatgca gatgggtgga aataagttat caaaacttgc 300
tgaggaattt aagggtgctct ntgaatttga tgttgtagct atctttgctt gtgatgttca 360
gctacaaaac cttcgagttc aatctcgggt ggctctggct gtgatatttg cattcatgct 420
acatcagatg ccgatg 437

<210> 27246
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27246

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agctttcttca taaacgtgac atttttgcac aatacacaat gtccggtaca ccacaaccaa 60
atggtgtatc agaaaggcac aatagaactt taatggatat gattaggagt atgttaatca 120
attagactat atccgtatct ttgtggatgt atgccttgaa aactgtcatg tatttggtga 180
ataaggttcc tagtaaggca gttccaaaga catcttttga actgtggaca aataggacac 240
ctagtataag gcacttgcac gtttgggggt gtcaggcaca aataaagatc tataatccgc 300
acgaaagaaa attggatgca agaacaatca gtggatattt cattgggtat caagaaaagt 360
caaaggagta tatgttttat tgtcctaacc atagtatgag a 401
```

<210> 27247
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27247

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tctcccccaa ttntctataa ataggggggag aagtgatgtg atttatgggt ttgtccctta 60
ggcacttctc tctctttcga atttgcttag aaaaattgtt tccgtgaaga aaatccaagc 120
cgaggcgctt ccaaaacttt ttcgtaacgt ttccgtgagg aatttcgcga aggtttcgac 180
cgttcttcga cgttcttcat tcgttcttca tcgttcttcg atcttcaacg ggtaagtacc 240
tcgaaccaag cttttcgatt cattctatgt acctttgggt gtccacattg tgtttcgtgt 300
atttttattc tcgtttcagt tactctttat accccctttt gacgtgctta agtcatttct 360
cgcttaacct aaaaataaaa taaatttcca ccgatcggtt gaattgtatt atccgctaac 420
ttccggtaaa atgaattccg acc 443
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<210> 27248
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27248

agcttgcttg tggagcttct atggagactg gatctttgag cttcaatgag gtcctccaat 60
 ggtgattttc caccatggag atgcagtgga aggcaaagga gaagaggaga ggggagacac 120
 catccactag ggaataagcc atggaagaag gagcttcacc accaagaatg tgccttgaat 180
 ctctgagctt cacaacagtt atccagttca aaagaacaat gaatgtgcta tgactactat 240
 gttagtaaaa agaatcaata aatcaaagaa agcaaaaata aagcaatgct gcaaaaactga 300
 actaaactct actaacagct tagttccncg gcaacgacgc cataaatact ntgttggatt 360
 tcccctgtgg ttactttatg ttccactntt tcttcgttca aatata 406

<210> 27249
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 27249
 agcttacata ctctgtatga aacatgataa tcaattacct cgttctataa acgattacca 60
 cgtttctgga aatgcatgtc acgaatgatt tgaaaaaatt aatccattac cccatttgtt 120
 aatcaattga atttgtcttt catattaaaa tctatatata cctctctctg atcattctca 180
 ttagcgaatc taatttagat cgtatctttc gaaaatactt tctgagagtc atctaaggga 240
 accactctgc atttcagcga gagattcatg atgatcacga ttcattcatt cttcatcatg 300
 atctgagcaa ggaaataaag gcttgaagat attgcgatat gcacatttag gtgtattctg 360
 aaataacaac aaccacacta caatgcgggt tgaatagtgt gataatt 407

<210> 27250
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27250

cgcttagcat cagaccactt ccagggtact ggaactactt cacatggact tgatggggcc 60
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttgctg atgatttctc 120
 cagatttacc tgggtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta ggagtgatca 240

tggcagagag tttgaaaaca gcagggtttac tgaattctgc acatctgaag gcatcactca 300
 tgagttctct gcagccatta caccacaaca aaatggcata gttgaaagga aaaacacgac 360
 cttgcaagag gctgctangg tcatgcttca tgccaaagaa cttccctata atctctgggc 420
 tgaagccatg aacacagcat gctacatcca 450

<210> 27251
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 27251

agcttatgca cggaaaatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60
 gttaaccatg cattaggtac catgttcaat tattttgttt ttaagtgaac cgggtttatg 120
 atcccaacat ggttggtctc taacacatga aactaagaat gtagtgtaaa gtttcacgct 180
 tcccccttct ttgtttttgt tttgtagagg aaaacgcaag gatgagcaaa catgaaaaca 240
 aatggtatgc aattttgcag atcaaaaagt ttgttgaacg catatgcatg atgatgcat 300
 gactcatgca aaatgtgagg ctggaatatg ataacggaca aatgcaogat atgtccatta 360
 tgatgttatg aagagatgct tatgcatgac atgatatg 398

<210> 27252
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27252

tcctcggagc catntcctgc gaaggcaaat tattggtaag ttntaccagn gggacactac 60
 tcttaaaaca aaaatggcat acaacctctt ctcataaata caaacatcaa tgtaaattta 120
 gagcaagctt atgcgcatat ttccttacga acgttcactt gcacaagaca ttctttttaa 180
 ctaagaaaaa tgcacccata tacaatcaag gcagcttcgt cacctagatt atttacctgt 240
 acttccaagg tgtatttggt acttacatca cacacatctc cttgggctaaa ttacatata 300
 tgcatactca aagcattttg gggtaacaaa aattgcacat gtgcacatct tggattttct 360
 aatacctata catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta 420
 catntcatgc 430

<210> 27253
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 27253

agctttatag taactcacia cttcttaate ttttgagttg gaagatcttt tcttgaaagt 60
 gagttatgtc ttttgagtag aagaagacca acatctcaat ccagcaaggt ttttgtggaa 120
 agattggtca ggttgtatct ctgctacttg gttttttcat gtgtatgttc ttttacacgg 180
 tcttgtgttt atgtgtgaat tgcttaccgc atgctagaat aggattttat agtttaggct 240
 aagagtagcg ttttcttagg cttatattca tagagggttc tagtgttgga tgccttagtc 300
 tctttttcca ggctgggaat tgtagattga tctgattgc ttgtaagaat tcttgatgca 360
 cagtggaaat ctaatttatg ttatggatta cataact 397

<210> 27254
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27254

tatcctctat cgctntgtat ataatnngac tgttgnatca ttcttgggaa aataaaacttt 60
 caatatgttg tttaaaagat acagacaatg ttacaatgca attaactctgg tgattgagtt 120
 ggttatgaca ctttcttttt aaccttaatt gaagtttgat agtggtacta agaaagtctg 180
 ctgaaaaaatt gtttttcaca tttactgac tctgtagcat gacattgagt catttttata 240
 tttgcagaca attaccatct ctagtacggg ttcaatcacc aagggataga cgtcatcaat 300
 ttcccgacat tgatcactac tccaacaggt attccactac taggggtcaa catatttctt 360
 gattgaagtg aatataccaa aactagcta ttacagttac ctttaggata tggctnttaa 420
 attaagttgt tggttactta 440

<210> 27255
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 27255

ttgcttatat tcgttgaaca cagagtggcg cctggagata tgtcgcatgg gtcacgagac 60
cttggggacg tcatgcgggg tgctattgcc caaaaccaag cttgaacaat cccgacccaa 120
ccagggcata gtcagtcagt gagaacctgt gttgtacctt aacatgcgag ctgctggcag 180
tcaacagata aaacgaacaa agaccacaaa gcaagaaagc ttgctgggtg gctgggcaac 240
tgtgaatctt gtgtgacata tgggttatgg cctctggtaa tacactacca tcggcgggta 300
atcgattaca aggcttaaaa atgaagac 328

<210> 27256

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27256

tgtctcagcg tttatgcgag acggagacca acatgctagc tatcatcgcc aagtaccaag 60
aagagttagg tctagccatg gcccacgagc atagaatcgc ggatgagtat gctcaagtat 120
acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgcctct accttaaacy ggagtcaaga acttccccgc ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tggctctctca gaccttgact agatacgact ttctttntga aataaaatga cttgggtcca 420
tgtttctact 430

<210> 27257

<211> 384

<212> DNA

<213> Glycine max

<400> 27257

atcttttatat taaaggttag tctcataatt ggtctaaata actaaaaatt acacaaatat 60
ctcaaaatcc cattgaagat tcaaagaccc tatttatggc cgccattaac ggttaaaact 120
aatgggtccac tataaaacca tatctttaaa tggctctcga ataatccatc aattttattat 180
tcaaataaat tagtaacgcc tcctattaaa gactcacatt tattgttcaa ataaattatc 240

atgtctttaa cgcattgttt gacaatccca aactaaaaga gtagattaca ataatatccc 300
 ctaagatttc ttgaaataca catagtactc ctaagtttta cacctacact agacctcgat 360
 ccttggtgaa gaacatattt gaca 384

<210> 27258
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27258

ctcaagcttg gacaacaaga cgtgttttaa ggaaacttat ccatttttta ttttgctnga 60
 tcaaagagtt gatatttcag aaaatagtaa cactcttaaa cagccatcat agtcacagac 120
 aactgtaaag atattaagtt gtcaacattg ctattttcat aaacagaata acagatttac 180
 atatttgttg cttaaaatgt ggaaagttct gttttcaaga cgcccaaac ctccctcctt 240
 ttacaaatag gcaaatagca tgattggatg accctcaatt tcaaagattt catttctaac 300
 tggatggaga ttggcttcaa attgaatatg aatatttaca aaataatgct atagttttga 360
 tgcagtcaa gaccaaatac acaaacatag tcatagattg ataantntaaa atacacattg 420
 gttaattatg tgaagacact aaaagt 446

<210> 27259
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 27259

agcttctaaa ctttatttta gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatattctta gaaggggggg gttgaattaa gatattccca attactttcc acaattaaaa 120
 atttatttca ctttcttttc aagttataga ttcccttaac aatgaacttc ttaaataatta 180
 attcaaataa aacaatttga atatgaatgt aaagcaataa taaacaaagg aggttaaggg 240
 aagagaaagt gcaaactcag atttatattg gttcgccac acccttggtc ctacgtccag 300
 tccccaagca atccgcttga gagttctact atcttgtaaa ttccttttac aagttctaaa 360
 cacacaagga caatccttcc tttgtgttta gaatt 395

<210> 27260
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27260

ttgttcaactg cagacccaaa tagcagcttt ataagttatc ttttttcann atcagcaaaag 60
 ataaattata tatatataac ctgcaagtac caaagggtact gattacagag tgagtcacca 120
 taaaaatggt tcctcagtca gacatcataa gtctgattgg gaacccaaat atgggaagca 180
 aagtatacat atattgatcc ctactcccta atgaaacccc tactgctgca gaaaatgatg 240
 tctcaagtta ctagaccatc gactaaaatg taatgtaaag tccttattca aattatggag 300
 ccaagtccac attaagaaaag tcgcgtattc taattaccga gattgaaggt cttctaataa 360
 tatccctaata catataacaa tatctaattg ttagatgtaa gcacattact acttatacac 420
 tttaaatnta tgaagct 437

<210> 27261
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 27261

agcttataat atatcgaggc gctcgaaatt gaacaacgga agctcttgag aaattcaaatt 60
 ggtcataaact tttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120
 atgaacaacg gaagctctcc agaagttaaa atggtattaa gttttcacac tgaggtccga 180
 tttaggttta taatatatcg gggcgctcga cattgaacaa cggaagctct tgagagattc 240
 aaatagtcac aacgtttaac tctgatgtac gattcatgcg cattacatat atagacgcta 300
 aaaaatgatc aacagaagct cttaagaaat ataaaatggc acaagttttg aactg 356

<210> 27262
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27262

agagtgatgt tgcgcgtgct gatgggtatc atgagttggt tgcgtgggttt tgacccacgc 60
aggtgttgaa gagacggcat gggcatctcc ctcccttcctt tttgcccctg ttgcccgcgat 120
tcttttggca ttcgcgtttg tgaaggaaac gtaatcaaac tttcctcttt tcaatccaac 180
ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aacctactag 240
cttctcatag tagaactctg gcagagtgtc caccatcatg gtgatcatct ctctctcaac 300
catgggagga gctacttggt ccgccaaatc cttccatcgc tgtgcatatt ctttaaaggt 360
ttcacctctt tttttgaaca tattctgcag ntgagtaccg tcaggagcca tatcagaatt 420
gtactga 427

<210> 27263
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27263

agtttattaa ttnttgtaat taggttttta gtttgaagtt attttaataa tgcttaatta 60
tttacaagcc tttgttcatg ggtggacaga ccttacaat aattaccgga ttcccttcta 120
gttttatgaa gttagaatga aattttaatc tgtagttaa gtttaagttt aagttagtag 180
ataaataaaa ctgggtaatt ttgaatatat tctatagata aattaaaata catgtgaaga 240
aaaatttaaa taaataatth ttttttctac aactaacaaa taaataatta aataaaatat 300
ggactaacia attatttata atacaaacia atattgaaaa aattattttac acaatatata 360
tacaataata ataat 375

<210> 27264
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27264

tatcctanat ggcactcctt gtatcaccta attccttact caattacttt taaagtcttg 60
ctgaatgagt acaaagtgac ttgtagcagt ttggtgagta acctagcatt gtatataatc 120
agtataaaaa tacctctgtc tatcaaattt taaaatcata tacatatcta agatgaactt 180

aatgttaatt tcaggatgta tcgagtacca tgtactcatt tatgaaaggt gtgggattca 240
 cccatgtgaa tttggaaggg attacgaaat gtaggattgt ttataatcat aggagaaagt 300
 ttgcaaaaat tggctattga tggaggactt ttgcacaatc acaaaanttg gaagcttccc 360
 agatgtaaca tctaactntg ttttattttg gatttgtttg taattgaagt acattatatt 420
 atactaatat 430

<210> 27265
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 27265

agtttatcat ttgcttaaca atgttatctc cattgtattc gagctcaatt gcatattctc 60
 tctttgatat atctgaacat ttcattcatt caaattactg cttggaaagt taggagtggc 120
 ttactgatca aagaatactt atgtgttctt gatcctacgg gaagattaaa ggtgtgtcac 180
 atgtaacgac ccaactgtccg tacatgaaac tatgaactac tctcaagcgg aagactttat 240
 ctttaattcat tgaaacacac tcctcttaat gacattat 278

<210> 27266
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27266

gcttcacaag cacacatggg gtatcatatc gaggatgatg ttaatatggg nttttgtgcc 60
 gncgncaca tgatgccag agatttgtat gatatgagag aagttggaga agacattacg 120
 ttcgaaagtg agtcgtacca tgagcaagat ttaaggaatc tatttgcaaa tgacataata 180
 aacaataacc ttggcgaggg atgatgtaga tgatgcgcat atgttggaat tactagacat 240
 taatttattt catgaactga tatatttggg aagatacaat ttcattgaca tctgggttta 300
 taaatatata ttatttgggtg tattgcaaaa tttatattta gtattgatac atgttcgcta 360
 tggtttgctg ctactgtatt aaattctaatt ttc 393

<210> 27267
 <211> 555

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27267

atgaccacac cagcgaacat catctagaca agagctcgca gatacacaga aaaaaannnn 60
ananannaaa gcganaagtt gaagcctgag aacctcgaag agccancnag ctacagnaccg 120
cggaagcac tagagncgac cagcacgcaa gcaaacttct agatttggac caanacatcc 180
atcggcacia caaaaaggaa gaagaccgag ccccgacat ctcccgga caccgatg 240
cacagacagg caaacacgc aagaaaaacg gtgactgtga aaaacagcac ctacaaaaca 300
aacaggcgca gactccact gcaccacctt gtaggggaga cacaaccga gatgacagac 360
gctgccggag tcgcatacaa agaggcgaa cgaccaaaa aagggcgca ggcaaaaaca 420
caggtccaca gacccagca acgacgagaa gccccccaa cacttacagc gacacgacac 480
gacccaccag cgcaaacgc aggaaaaacg gaacacctag agcgccaaga cgcgcgagcg 540
tacaccaaca cacc 555

<210> 27268
<211> 445
<212> DNA
<213> Glycine max
<400> 27268

ctcaagctta cgcgcatact tccttacgaa cgttctcttg cacatgatca ttctattatc 60
taagaaaaat gcaccatac acaatcaagg cagcttcgtt acctagatta ttacacgta 120
ctccaagggt gtatttgta cttacatcac acacatctcc ttggctaaat ttacatacat 180
gcataactcaa agcatttttg ggtacaaaa attgcacatg tgcacatctt ggtatttcta 240
atacctatac atacgcaaac ttcacatgta atcttgacta ttttcacaaa aaggagctac 300
atttcacgct cttttttcaa gctgttgcta cttaaagccg catgcatatt caagcatatt 360
ctcctttgct gactaaaatc gtattcaaat tacaaggat atatgtattt gtaatatgtt 420
ttttcaataa catgcacata tttat 445

<210> 27269
<211> 307
<212> DNA

<213> Glycine max

<400> 27269

ccatcccaag agcttttggt gaggcacat tgacgtctct cagctcgggt ctctcttact 60
ggaccttgat ggtcgccgtc ttgaactttt ccgtgatcgc ttgtgcccaa acaacttccg 120
ccattaaggc atgcacctcc tactctatt catggagttt agtctcttac tcacttgagg 180
tcattatctt cgggagccaa actaactctc gcgtgcaagc cttctaccac ttgggatatg 240
cgtcgatact ccatttgctg cttccccaag ctctatatgc tatctttgta ccgtacacca 300
tgcttttc 307

<210> 27270

<211> 242

<212> DNA

<213> Glycine max

<400> 27270

accacggaa ataatgctt gcgcaaaaca acaaaaaaa ggaaatcata acaccaccgc 60
gaaccgcaac gaaaagagca catataaacc agcgaaagaa aaaaagacaa ataatcgcg 120
gccaagccca cacaagaag aaacaaacga ccagcgagag caaacatga aaatccctca 180
aacgtgaacg aacgcaacat tcaccaaaaca tagaaccaac ggccaccaag aacagctaac 240
ac 242

<210> 27271

<211> 515

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27271

cccgaccaag aacgcgaaag aaaaaccgct tacaccccc ccccgagaga tgttcgagct 60
cgaancagga caaaaaacc agcggaaac gaaggggccc aggacacgtt ttctttaaaa 120
aataccccaa gagaacgaga agtaatgggt taagcaatac atcgaacttg agccactaca 180
cagagacacg atcgcataaa gaaatagcga cgctatacat aacacgagaa gccgcaatga 240
agatttaaac gacatgcaa gttacatata aaatcccgcg atgatcaacc cctatctacg 300
acagaactag cgtacataga caaaggataa aaaacaacca taggcgaaga agcactcaca 360

<211> 168
 <212> DNA
 <213> Glycine max

<400> 27274

atcttcatca gatgttgtat ttctagaccg ctacctctta tggaagaatg gaatgtacac 60
 tttgcatagt atattagatt aatgagcata tagctattga cattgcgacc cttcacagct 120
 atcagaatgt ctctggcac caccatggac ttcgccatat cagcaata 168

<210> 27275
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27275

gaaaccataa aaaccaaagt agtttctaata ttacatttta ntgaagaagc tgcgccaagc 60
 atccccatag aaaaaccttt attcaaacct tacaaagtta gtgagaaggc taaacgaaaa 120
 attatggaac ttagaaaaac taaatcctta attgaaggcg caggtgacaa ccatagttaa 180
 ttactaaaca agattggcag ttactttaaa gtcattccaa atacttccca agcctcggaa 240
 aatactttca aaatggtaac aagaagtacc tccaaatcaa ttaattttat taatgaagat 300
 agtgaccata actcagataa cacaactgat ataggatcag tgtcagaaag tatataaatc 360
 caattaatgc caaaca 376

<210> 27276
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 27276

agttttagg attatgttgt acccatcaca tgtggtacta ggtggcggtc ggatgatggt 60
 gcacaaaaag ttttccacat acacaaatcg cgcttatacc caccatcccc tgttgccac 120
 ctccaactga gtcacgtac tcccacgtag cccatatact gatttctctc aacaccgggt 180
 ccccatcaat cctaccaagc ttccccaaca tccaagtaat tcaacattca aacagcacac 240
 actatcacag ccaataaaac agggcatagg cttaaaactc tgcccaaagc accaaccaaa 300
 atcacagcta ttctcac 317

<210> 27277
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 27277

caacaagagg gatctaagga tgaagcttgt cacaccctga tatatatatc tatatatattt 60
 tagtaattat gtttgatgtt tcattatttg ctgcattatt tttatccgta attattttca 120
 aggagggttaa tttagttaat agaggagtgt gggtagataa ggatctagct tctcaaagaa 180
 gcctcttgag aaagcttctc aaacaagcca ggaggaagct tcttgatgaa gcctcttatt 240
 gaagcttctt gaggaagcta catgatctgc ctcggttaaa aactacgca cccttcgtta 300
 accgttggag cttctagaat ttgcgctgca gcttcaaaca cactttccat gatctgaccg 360
 ttgggatc 368

<210> 27278
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 27278

gtttctagtg agaatatcga cttttttgca cctgcactca gtgagaatca acaaccccgga 60
 tctcattatg cacttgtctc tcagccgatg agagaaacac atgtaagtcc gtaagaccac 120
 actttggttg gattcgggggt ctatccaaga tataaactg aagggatgaa attttctaac 180
 attcctgtgc tgaatgctct cggaatatct caatgttgcc cggtataaca accctt 236

<210> 27279
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 27279

gtgtaatcga ttacacacat acttacaact ttcacattta gagagccgca gaaaacattc 60
 tcaacagcca catcttttta ttcggttctt gaatggccat caaaggcata tatatatgtg 120
 acttgagaca cgaatttgat aagagatttt caaaacaaaa aggtcttatc ctcttatata 180
 gcaaaatacc tttatcctct tacatatctc ttggccaaaa ctcttttgat tcaataagga 240

attatctgag tgctcacatc gctcaatcta tctctttata cagagatttc ttcttctctt 300
cttcattctg aaaagggatt atagagaccg atgggtctctt gttgtgaaag gattc 355

<210> 27280
<211> 378
<212> DNA
<213> Glycine max

<400> 27280

agcttgtgga ttttaaggat tgagggctgt tttggtttgt gtttaagttt gagtttgtgt 60
ttgaggtttg tgttttgga gacaaactcg aagaaaaagt tttgggttta cgtgtatgtt 120
tctcttcata gagtttggcc aacgaaattg ttctgaggag tcatgtaggt gattgtgcaa 180
tgacatccct tctgatatca ggttttaatc ctcccacata gcaatccaat agagcttctt 240
gtgtaattcc ttgtactcga ttagctaaag ccgtgaactg cacgtaatat gactgaactg 300
aaccaatttg agcgagtta aacaactgag atctaggaca ttcataccgt gatgggcca 360
attctgtctc taatgctc 378

<210> 27281
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27281

tgtcatcgtg agacatcaga ggctagtatt ntaatttatg tgggtaggaa aaattcacca 60
aattgataga gaaaaatcta aaatcataca tcttaggcaa ataaggcatg ctagccccc 120
acattattgc attttgattc catctttgga cattgtgatt ttgaaaatta gaaaacccaa 180
agtttattag ggcatttcat caaacataca actcccaact gatctggcaa aagaaatagt 240
gagtagaaaa tggaacttgc agacaaaaaa caaataaaag aaagatgatt ttctctttat 300
cattcgcaga aaagaaaaat tgaggaaaca cactgcaaac aaatgttttag atttccttat 360
gtgacattat actaactagt gaaaatttag cagttaattt aaagttaata gagatgcaga 420
atgtaaataa 430

<210> 27282

<211> 403
 <212> DNA
 <213> Glycine max

<400> 27282

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agcttgaagg tgcgtacccc accatttttc atagtaaaac actggtaatg tgtctactat 60
tattgtgata atctctttcc ccatcattgg aggtgccact tgagctgcta ggtctctcca 120
tctttgggtg tattctttga aagatttgtg ccacttgagc tgccaggtct ctccatcttt 180
gggcatattc tttgaaagat tcgtgcccct ttttgacat gttctgtagt tgcacccat 240
ccagaaccat atcaaaattg tgccgatact gcctaacgaa ggcaaccatt aagtccttcc 300
aagaatggac tcgggaaggc tccaagttag tgtaccaggt aacagctacc ccagtaagac 360
tttcttgga gatatgtatc agtagttact catcttttgt gta 403
```

<210> 27283
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27283

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tttgcttcct ccagaagggt cctgatgggc ccagtgttta gttctcccc ctaaatngat 60
cagttcaccc ccattttgtg tttttttggc tgatctcctt cccaaatgtt gtgaaacttt 120
acggattacg cggcgatgag tgtaagcat ctcaatttgg tcaaccaaaag ttcatatgtt 180
gacaagcaat gtccccagac gaaattaggg tatgacaagg gattctcaa cctccccttc 240
atgggaacga ggcgttgat caattatagt cccgtccttg ccataagaca acttggttag 300
cccgtgagag gagcacctgc agaagaaagt atcacacctt tcacgcgca gggtttcac 360
gacccaatg caaggatatt tcaaaaagtg cagacagcat ggagtacggt gcaaagaaaa 420
gataaggagc tt 432
```

<210> 27284
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27284

agcttatatt ttaaaactnta actataaaaac agttttttaag taaaagacaa aaaggtaaaa 60
 taaaatacaa gtcaacacta gogatttttg gtgctgcacg caagacaagt catgaccaca 120
 tgggtggaaag ttgaacactc aaactgccat attaagtcac gcactgtcat tttggttgaa 180
 aaatcagaac ttttttctct ttacgtaccg ccctggaatc agtacgtaca gctgtaaaca 240
 tagacgtgtc aattctcaat attcaacagt caacaaacat attgatgcta actgtttatg 300
 catgtcgtcc catgaaatat tcatcaactc tnttatgctt tatttcagtc aaaaaatact 360
 aatattcttg gatttatatt atatttatct taattcttat aatt 404

<210> 27285
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27285

nttgttcctt ttataaaaag agaagtnctg aaacttatca cgttgtctat aaaggccttg 60
 aggtggatcc aagtgtcttg atcattcatt agcatattca tgttttggtg tcataactcac 120
 cactgtttgt ttttttaggg aactcaccat aactaaaaaa gcgcaaaggc acccctataa 180
 cactcgatcc agaagtaaga tggataacga agaaggagtg caagaacaaa tgaaggctga 240
 cctatcggcc ttaaaagatc aaatggcttc tatcacggag gccatgctaa aacttcaaaa 300
 aactatagaa gataatgcta cggcgccgcg ttccaatata gctaggggaag cggaaccggt 360
 gctatagccc gcaataaaact tggggccaaga cagaaacgcg acgggtttta atcggaggta 420
 tagtcctcaa gcctaccctt at 442

<210> 27286
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 27286

agtttgcctt ttattatgct atatataggg ggagaagtga cacaaaaaag ggctcagcct 60
 ctaacgcact tctctctttc tcgaaattgc tgatgaaaat tattttcgtg aagaaaatcc 120
 tagccgaggc gcttccgtaa cgtttctgct acgtttccat gagtaattac gcgaagattc 180
 tcgaccgctc ttcaagattc atcggtcgct ctgcgttttc ttcagtcctc aacgggtaag 240

tacctcacac caagcttttc aattctttct atgtaccggt ggtggtccac attttcgctc 300
atgtatttat attctcattg tcatttactg tttataccct cttttgacgt gct 353

<210> 27287
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27287

gatcataaat tcaaaaacat agggtttagta tttgataatt gaacgcncta tatggcatat 60
attctatctt gtatcttgat ttcaggaatt aaattgtcat cataaagaag ggggagatta 120
tagaagcaaa gacattttga tgttttgatg atgccaaagg atcatgcgct tctcaagttt 180
aattcaagac aagaatccaa gaaattcaag atatatgatc aagataatct ctagagattt 240
aggaagggaa ttccaatttg aaacaacaag aggtttggcc aatgaattta agctaaaatg 300
tatttacaag agattaactc tctggtaatt gattaccagc ggccaaaata cttcctgaaa 360
tacttctaaa atgtcttttag atgtttttga aacatgtaat cgattaccag cagttgaaaa 420
tatttataa 429

<210> 27288
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27288

agcttcaact ctttgtgcc atttctgctc caaatcgcca aaggagggca ttttcggagt 60
cgtgaagcgc gtctctacgt gtgggacttc gaaatttcag gtttgggtgg acttctttct 120
ctcttgattt tcgtgggtat ggggttttgg gagatatgat gggtagtttt gctagttttc 180
tgcttcatga tagttatttg tgaagaaatt tgttgaaagc atgttgaact tgccatgntt 240
ggatgagtta agcttaccba ttcagtttta gggttcttat gatgatgctt gtgatgttta 300
tgtgctgaaa ttgcttatgc aaaactgtta gagatgaatg gtagagttaa cctacggtta 360
gatagtgaga atgtggtggt atgagtggaa aaag 394

<210> 27289
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27289

ntagcatggc ctccgtgata gaagccattt gatcttttaa ggttgatagg tcggccttca 60
 tctgttcttg cactccctct tcattatcca tttttctgga tcgagtgtta taggggtgcc 120
 tctgcacttt cttagtattt gtgagttccc taaagaaaca aacaatgggt agtatgccac 180
 caaaacatga atatgcta ataatgatcgg agcacttgga tccacctcaa gattttttaga 240
 tgacgtgatg agtttcagaa cttctcgttt tataaaaagg aacaaagctt ttatctagcc 300
 aagatcatatc aaaagtgtta caacagaacc taacagtttc taattatatg ggccatcaaa 360
 tctatcatgt gttgacagta gttgattagc tcatgaattt ccttaggggc tgtacacact 420
 tcagcgatgg cctttgcttt 440

<210> 27290
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27290

cactacncaa gcnngcagct gaggtatcct atagctttgg acagccatat tcatatttcn 60
 tatccccacg gcgcaacggc atctctgtga acagaggcgt ccgnccttta caaattattg 120
 aatcataatt tttttttcta acttcaccct tcattcatat ttatgagtga gagaagacta 180
 ataaaatcat aatactatctt ttaatatctt aaggaagggg aattcagtca aaggaacttg 240
 tttcgcttat aatcgaggct atctaacgac attctcattt cttgtgcaat aacctttcaa 300
 tgtcgataat gaacggaaat aaaatccttg atgattgaag atattctgtc tattcgataa 360
 tgcattccgg gtgtgtgctt ttgtccatgc cccatgaaat 400

<210> 27291
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27291
 tgtgattaat acgngngaaca cgcctaagtt taatgttctt ttggcaaagt gggagagtct 60
 gatagggttga gtctaattgc catcaagagg atagtctttg attatTTTTT tgagtgggtt 120
 gccagagtaa gtgataacca aggagtttct tgatgctcta ggagagaggt atcaagtata 180
 tgataatgtt gaatctggaa gtctaataaa gcagttaatg gacatgagat atgataatgt 240
 tgggggtgta aggggaattca ttatgaagat ggtaaacatc cggaccaagc ttaaattcca 300
 caaaattgac tttaataaga aattcattgt tgaacatgcc ttanattgcc tatttgctga 360
 tttcacacaa attaaaattg cctataacac tattggccaa aaatggacta tgaatgacct 420
 tattaccaa tgtgtc 436

<210> 27292
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 27292
 cttgcaagtt gtaatataga gatatataca ctgagggact tatttacacc tttacttatg 60
 aagaatactg taccgcagtt acttactcag agtacttctt actccttatg ttagcgagct 120
 catcaaagaa tgaataatca aactaatcac tacatttctt tcacgaattc ttggatgcct 180
 ctctaacaat atcgatcaat tagatatcaa attataccgc gaatactttc atatatatgt 240
 aaaacctaac aaaattagac acagcaaagt cgagaatata taaacataca gataccacat 300
 ataaa 305

<210> 27293
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27293
 aactcaactg tggctgggca tttcttgat ggaacttaga gatgcctatt taagagagac 60
 ggaaaaggac gngaaattgn gggaagacaa tatgaagcaa tatggtggaa aatattattc 120
 gaaatcatgc attgctaatt gtggcatatg gtatcatgat caattgtgca aagacatgaa 180
 gcgtaacccc agaagaaaga aaggcctttt tgcggagttg tttgaaccat atggccacgc 240

tgattacatg gatcttactc gcaaatgaaa attttaatgc aattaaattt cttttaagat 300
tctttgggta gtgtatctct ttcataacga gaatttgacc gtgtctttaa atcctgatgg 360
gggtgtaaatt aaaaaaaaaat gtatttcttt aattttatct atttattgta ataaatatat 420
taaatttaag agataacatt at 442

<210> 27294
<211> 187
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27294

agtttaacaa anacatggaa agccatcaca gtagcgaagc aggacgcttg tcccataaat 60
tagcacgcaa actacggcga gctgagtgtt gaccctatac atatcaacaa ttcattcaag 120
cgaaacaaac aaagcaatct aatgatccat ccataggact aaatgtaacc atacatacat 180
atgacaa 187

<210> 27295
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27295

agtttgtcaa tgaaaatttc atagttcatt tggatattaa atcaaacaca taacttgcaa 60
ctcgcgaatc agtccaaaac gaataaaaaa acacaatatc attcaaaca tatgtacaaa 120
gacctgtata acattatcca gataaaacat taaaagaaca aatgagtaga aatcttttct 180
gcatagccaa agaaaatctc aatacattnng gacatttaac taaacactta gctatcaacc 240
cgcagagtag tacataataa aatcaaataa atatttagct accataaccc atcaataaag 300
ccacaccaaa atcaatggaa caacagaaac taataaaatc atatgagtga agcattaaaa 360
gataaagaaa tagatg 376

<210> 27296
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27296

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ttgaagagan agcaccagc tatgatcttt ttgtgttctt tgaaaaagcc tatgacactg   60
tattctgggc cttcttggat tatatgctat ctaagttagg tttctgtact aaatggagac  120
aatggattgc tgcctgtctc caatcagcat ccttttccat cttagttaat ggtagcccta  180
ctaaagaatt tgtccctact cgtgggttga gacaagggga ccccttagcg ccattgcttt  240
tcaatatagt gggggagggt ctactgggtt tgatgagaga ggccattctg aaaaatctct  300
atcgcagcta ccatgtgggg aatcataagg agcctattaa tacccttcaa tatgctgatg  360
atactgtttc tattgcggaa gcttcttggg agaatgtcct tgccatgaag gcaatgctta  420
aaggttttga gat                                                         433
  
```

<210> 27297
 <211> 379
 <212> DNA
 <213> Glycine max

```

<400> 27297
agtttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa   60
ttagagtgtg tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa  120
gaacaccctg gctgtatcaa aggactgtca caacctttgt gtgttgccct cgctggaaag  180
agtgattctt tccttcctat catctccacc cttgttcttt cagaccacaa ttccagataa  240
tccacctctg cccaaaatta tctcgtgacc ataactccca ttccacacac tcaaattatg  300
tgattcttga gcctaaattg aatttcataa cgagaccttt cacctcgttt tggatcacct  360
catttgagac cctgtagct                                                         379
  
```

<210> 27298
 <211> 382
 <212> DNA
 <213> Glycine max

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<400> 27298
cttctggctt caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc   60
agcctttgat gacagctttc cagggtctgc tatccagtga tttgaggaag gccaccattc  120
  
```

ttgctttcca atattcatag ttgcttccat cgagaattgg tggctctgtc actgggtccgc 180
 cttctttctc catgttcac cagaatttacc tccctagatc tcactctgtg atttcgagtg 240
 ttggctctga taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac 300
 gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt acacaagtaa 360
 ataacacaag agaattgtta cc 382

<210> 27299
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27299

agaaaaagag ggaggagaat tgaactntga agagtgcacc acaagactca tattcatcac 60
 agttatgaca agtggttacac atgcttctat ttagagccta ggtcattaac taaatgaaag 120
 cctccttgag aagcttcctt gagaaacttc cttgagaagc tagagggttaa ctacacaccc 180
 cttctaatag ctaagatcac ctcccttgagg agcttccttg agaaatttcc ttgagaaatt 240
 tcctggagaa gctagagctt aactcacaca caccctcta atagctaagc tcacccccat 300
 gccaaaattc atgaaaatac ataaaagggc ctactacata gactactata atgccctgaa 360
 aa 362

<210> 27300
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27300

agcttgtgca aatcaaatac ctccctacac tcactcttag catgcatttt ctttctttac 60
 ccactoctca cgtttggttt tttagggaaa acaccataac taaacgcgcc gcaagggatc 120
 cctatgcac cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga 180
 tgaaagccga catgtcggct ctgaaagaac aaatggcctc catgatggag gccatgttag 240
 gtatgaagca gctcatggag aagaacgcgg ccactgccgc cgctgtcagt tcggctgccg 300
 aagcagaccc gactctcttg gcaactacgc accatcctcc cccanacata gtaggacggn 360

gaagggacgc actgnggcac gatggcagcc ctcacctgng ataca

405

<210> 27301
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27301

ntgaagagtg ttgtttttca ctttctcgct aagccaatat gctggcttag tgagcttctg 60
ctatgcgcaa cactcatggg ctaagcgtga ggaagactct ggaagaagat gagctataca 120
ggttcactaa gcgcactgct tcattctact aagcgcaccg cttcagttca tccgctaagc 180
gagaatggca cgtgcaagcc aaaattcact attgtgtgct aagcggcca taattgcgct 240
aagcgcacga gcacgaacaa ggccacctat ttaagcctga aatcagattt tagaagggag 300
tttggactgg gattcagagc tttgcatgtc tagagtttct agagagagaa aggtccaagt 360
tccagagagt tttgagagat tttgctgtgt gaagatctgc agagaccaga gcttgaagca 420
ngagccgatt tgagagc 437

<210> 27302
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27302

ctcaagctng gagaatggct agacatgata catgtcacgg nnatttttcgg ttttgagata 60
aaaagggatg cccacatta tttccatgac acaaaatgca aaaaaatgat gatttggaaa 120
ctttatgcaa aactggcat gcattgcact atgcggacac tcaagtgtca aatttttatg 180
gtcatgtgat gctagggctc aagattcatt tctctattt taatcaaccc aatgtttcca 240
aaatatgttc ttttatcaat ttgtgcattc atccgagtcc atttcgggcy tccggtgaaa 300
tttcacagca ttcacccttc atgtgtagac acattttcca aaaattgggt atgatcaatg 360
aactctgttt tggacatcgt ctcttatcaa tagcatgttc gtttttagct atacaactta 420
ttttcttatt ttctgcttct ttattttt 448

<210> 27303

<211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27303

agcttgctaa tgataacttan gaaatatcaa gaacaagctt cttcgcacat cgtttgcggtg 60
 tatgatatcc actcgacaag gtttgaagta gaggagacct tcaatcctat aatgcaacat 120
 ggcggacaaa agtgggcagt taacttgaat ggccattatt gtcaatgcgg aagggtattct 180
 gcgcttcaact atccatgttc acacattatt gcaacttgng gntatgtgag catgaactac 240
 taccaatata tatatgtctg ttacacgaat gagcacatct tataagcata ctcccc 296

<210> 27304
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 27304

tcaagcttgc actgccccaa gtggacaacc ttccagaaaa cgttgaagct ttcattgttg 60
 tcccttatga tggcggttcag tatctcaaaa aagcctacga tgatttggaa gaacccttga 120
 cctgttttct caaatcttcc aaagttgatt ggcatttcta tgaccatata atgttacagt 180
 taccaaaaag gttcaaagag aaaaccaa at ggtgtggaat agtaagcccc ggttggggcac 240
 catagttgaa ggtattgagc cacaaggcag ttgggtgggt tttgactcac tctggttgga 300
 cctctgtggt ggaggttgtt tagaatgaaa aacctctagt tttgttaatg tttcttgcag 360
 accacggatt gaactcgagg gtgttggaag tgaagaagat ggggtattca attcctaagg 420
 atgaacaaga tggatcattc acgagtga 448

<210> 27305
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 27305

agcttgcccta ttatacaagg acacaacaag agacatgaat cttataaata taaatataga 60
 tacacatgca cggtaaaaaa tttaaattat aataagaggt gacaagatca ttatacaata 120
 tataaaatta acataaaaac ataaatgttt aattaaagaa aaaattaata tttaataaat 180

tactatcatt attagttatt gctgttttca tttgtgttta attatttgta ttacttattt 240
tctattcaaa ctaaacctgt tcataaggca ataaaaattc taaaggggtca gtcacagttt 300
tctgcaatct ctgtctctta cgtatttgaa agtgtgtata tatatatatg agataaactt 360
ccacccgttt tttatgtctt aaaaactcgt gccttattaa aaga 404

<210> 27306
<211> 444
<212> DNA
<213> Glycine max

<400> 27306

tgaaggagaa ctagatgcat tggttaactt ggtaacctag catgccttgt atcagaaatt 60
tgtacctgtc gcaagagtct gtggtttgtg ctctctgca gaccaccata cagacctttg 120
cccttccatg tagcaacctg gagcaaatga gcagcccga gcttatgttg caaacattta 180
caatagacct cctcaacctc agcagcaaaa tcaaccacaa cagaacaatt atgacctctt 240
cagcaacaga tacaacctg gatggaggaa tcacctaat ctcataggtt ctagccctca 300
gcaacaacaa cagcagcctg ctcttctctt caaaaatggt gttggcccaa gcataccata 360
catttctcca ccaatccaac aacagcaaca gccctagaaa cagccaacag ttgaggctcc 420
tccacaacct tccctcgaag aact 444

<210> 27307
<211> 377
<212> DNA
<213> Glycine max

<400> 27307

agcttctggt tttatcattt gccactttta taatttttcc agttttccca gtttaatttt 60
gatgcatttt ctggttgctt gggtttacagg cagttgtcct ttgtcaagtt gaaaaggcta 120
aggaagacat gctgaatcaa ttatatagct ctgtcaggtt cagaaatttg tttatgcctt 180
ttattcttat tctcttgcat taaatttctt ccttgcatth cagtctcatt cttgaagatt 240
ttaaaggaac ataaagaaat tataaaatat ctttaaattc tctttgcatt ccttcagaat 300
tatctggaat gtgactgata attctggtaa cattttgccg cacagcttca ggcttgcaat 360
gtatcatgga actgaat 377

<210> 27308
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27308

catgccaaag atccctggac aaatcacagc ttttcacata cntttattaa gaacttttct 60
 catagcactc ttaaattttg gtttgatgaa aataaaaacc ctgaaatata gtaacccaaa 120
 gtttgatttt ctaaattgaa actaaaaatc ctgacaaaaa gcttttatta ggcagaaatt 180
 agtttgataa tcatcaatga agttgctaag tttgctttta cactgtatta atctgagtaa 240
 cacttaaact ttgggtctcc aatctataga ataaaaaacc cacagcctat caagtcttga 300
 cctctgagtt taccatttaa taggaagtat cataatcagt cttgacaaat gcaattatct 360
 cctttcacat tatcacacga cttgcaaagt cattgagcaa ccaaataata aatgcaacat 420
 atgaatttct aaatt 435

<210> 27309
 <211> 467
 <212> DNA
 <213> Glycine max

<400> 27309

acgaagtga gctgatacat cgaaagtcac acaactcgga aagcggggcga actgttaagt 60
 ctaccattcg acctagcagc tgacattttt atggaaagcc caagattggg gcctcagact 120
 gtgaccact gcttatcact aattactggc atgaactatt ccgattaact ggaacataaa 180
 tgcgcataag atctgagtac tatctgcaat ccaatggcca tacacaatgt cttaatcgag 240
 tgcattgagc aatatcttcg tgcatttgct cacaacaagc tatcttcttg gggagactct 300
 ctcatgggt atggatgagg cctacatacc tttaagcgct tagctataga gcctctcctt 360
 ataaaatact tacgtgacaa aagctcttac tattcccaat acgtacggat cctaccacat 420
 gtgtactgca accactcaat gttggatgcc gtattgccat ctaaact 467

<210> 27310
 <211> 396
 <212> DNA

<213> Glycine max

<400> 27310

agcttgtgta aaaaatccac ttagtgataa atgggaagcc atgctgatag agggcaaaac 60
ttattttgtc caaaactttg aagctgagat gaactcatgc cattataggg caacaaatca 120
tcggtagaag ctatctttta tcaaaacaat cattgtgaag gaaacaaata ttgtagatat 180
acctaaggat gtttataggt tcaccgagta tgagctaatt acaacaagg ctgtttcatc 240
taattacctt ataggtaatt atgtgtacat atgcaatcaa gtaagatttt gttgattttt 300
atgaaataag aatctctaac taatatttat tttcttattt cattaaacaa tttaaaaatg 360
cagatatcat tgggtgtgaca ctttctattc caatat 396

<210> 27311

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27311

actcagcttg tgtgttgatc attttgggag aagatttcat ttttgattct tacacaanac 60
gntntctctt ctcttgttta ggcctctaata tttgttggcg ggaggcataa acaagttttg 120
attttgcccc tgtctgtaac tctatccttg atggaagtca ttattattgg agaactactt 180
atagacattg tttctgcctc ccacataatt tcatacatgg cttaagccaa ttctccttcc 240
actatgcatt ctctgggact atggacagat ccacacctat cataagtatg gtagaaaggt 300
gtggagttag gaacttggaa tacggattgc gcattcatta aagtctcaat ctgcttagat 360
aaagcttgaa tatgttgtcc aagtcagaa gtagctactt catcctccac ctggctaagt 420
gtcctcttca tgattctctt atc 443

<210> 27312

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27312

agttttgaac aatatacttg tccttcattt aactgttttt gggcttggcg gccacgctca 60

acaaagtatt ttcgacacct actgtacatt gatttgacca acgttggttat gggaatgttg 120
 tgacaatcct tcaaacctt attgatacat tctgagaggt tgggtgtcat gtggccatat 180
 cgacgtcctt ctctatcata agccatcatc ctttttctt tttaaatgcg atcaatccat 240
 gttgctatgg atggactcag ttcacaaaat tcttctagat tttgatcaaa aatgtgcttg 300
 caaggagtgt aggttgcata aaattagtta tgaataaaaa ttttaagtat atatcacagt 360
 taaataaatg tgaccatgan atatgaaatc ttaca 395

<210> 27313
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 27313
 ttcttcaact ccacaatggt acaaataata tttgaattta aatgctaaaa ctaaacaatgg 60
 tctagtagag tcaccacggc cagactcgac acctacacta actgcctggg ccatgggttag 120
 atgaccacga cgtactcga tgcctgacac tgaattcttg ggttggtggc aaatgactat 180
 agcctttgta ctgacaggca atttgactta ataatttaaa agaaaacatg tgacaaactg 240
 taaataaatg gataccaatc atggattgcc actaagatag agcttgctta acatcacgag 300
 cctgacatgt gatggttaag ttgcccaaag gttgaagagg tgcacaatgt cttgcacttg 360
 ttggaatcct tcataatata ccatgactct atgtgcattc attgtgaaag tggcttagca 420
 tcctctcctt tgacaat 437

<210> 27314
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 27314
 agttttgcat accccattga tccattagga aattacttat gaaagagagc catgaggggtg 60
 ggctcatggg ccactttggg atagacaaga ccttgtctt actcaaagaa aagttttatt 120
 ggcccatat gaagaaagat gtccataagc attgcactat gtgtgtggct tgtttacaag 180
 ccaagtctag ggtgatgcct catgggctat acacaecttt acccatcca tctgcacctt 240
 gtgtagacat tagtatggac tctgtccttg ggcttcctag atcccaaaga ggtgtagact 300

ctatctttgt ggtggtggat aggttctgca tgatggcaca ctctatacta tgccataccg 360
 tggatgatgc ttccacatct caaac 385

<210> 27315
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 27315

agaaactcaa gctggagatg aggaagtata ctagggggaa acttcctgtt attatTTTTT 60
 gaccacagag tggtagctgc agatatgtcg cgggggtcac gagaccttgg ggacgtcagg 120
 tggggtgcta ttgccccaaa ccaagcttga ccaatcccgga cccaacccgg gcatagtcgg 180
 tcagtgagaa cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaaagg 240
 aacaaagacc acaaagcaag ggggcttgtg gtggctggcc agctgtgaaa cttgattgat 300
 atgtgagata tggcctctgg taatcgatta ccaaggggtgg gtaatcgatt actaggctta 360
 taaatgaaga caggaggcta agatgggtctc tggtaatcga ttaccaaagg ggtgtaatca 420
 attaccaggc ttgaaaaca 439

<210> 27316
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 27316

agcttgtaat atgtctagtc aactatatgt tcagtttctg gtggcctgtg gaagatgatt 60
 gggtttttta ctgcattgta taatgaatga tcgaggccgt acccgaatca tataaacatt 120
 aaaaatacag tatttaggaa gtgacacctat gtcgtctccc aacgagcaat ggtcaaccaa 180
 atgttcataa cagatagtaa taaaacagta acgaattggg gggggggg 228

<210> 27317
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27317

ctcaagctta aatttcacta agnaattcaa ttataggatg ttccttacct accttacaag 60

aaacctagaa cttcctttcc cgaagattgt ggattctcat ttcaatttca atgttctaag 120
 ttaaaatttt ctcgaacaat ataaaaatatt tttttaaacg ttaattattt acatatgatt 180
 gaagtatgaa gaaatttgtc cattggaaaa atttagactt tatttggcat atttagctga 240
 aaattaacta aaaattcaca gtttaaattt agtgaattaa actatatata aatgattagt 300
 aaaaataact tatctactac atataaaatt atgtctataa aaaaaactac atataaaata 360
 tgtaaaaatg acatatattt gtatgtgtga gtatataata tttacttaat ttatatatca 420
 atatatattt atta 434

<210> 27318
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 27318
 agcttgccac ccagctcgcc caggcgagca aggttgcttc ctccagaagc aacagccttc 60
 tggagggccc aagtgggcct gggttgctatt tgcaccacaca tttttactaa acacaccccc 120
 tgcccacttt ttttgagat tcttttttcg taaagttacg gaaacttacg aatttcgtaa 180
 cgatacttgg tttctttgcg taatgttacg gaaccttgcg gattacataa tcatcccttt 240
 tttgacttac ggaatgttac tgaacctcac tatttggtgca acgatgcttc cttttgattt 300
 ccggtgtgac acggaacctt acggattgtg catcaatatt atccttt 347

<210> 27319
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27319

tctccccaat ttctataatt ggggttaagt gttgtgaana agggtttagc cccttaggca 60
 cttctctctc tttcgaattt gcttggaata attgtttccg tgaagaaaat ccaagccgag 120
 gcgcttcgga aacgtttcca taacgtttcc ataaggaatt tcgcgaaggt ttcgaccatt 180
 cttcgaagtt cttcattcgt tcttcacgt tcttcgatct tcaacgggta agtacctcga 240
 actaagcttt tcgattcatt ctatgcaccc gtggtggtcc acattgtgct tcgtatatatt 300

ttattctcgt ttcatttact ttttataccc cccttttgac gtgcttaagc cattntatTT 360
aagtcatTTc tcgcttaacc tanaaataaa ataaatttcc accgatcgtt tgaattgtat 420
tatccg 426

<210> 27320
<211> 388
<212> DNA
<213> Glycine max
<400> 27320

agctttgaag atatggtcTT caccgacgaa aggatcaaag tgggtctaaa aagaggcaaa 60
tctgatcatc atgctttgat aaatgccaaa aaaaaaacta gggcaaatga agaggggtgag 120
aatgaggggag aagcccatgc tgtgacttcc attcctatat atccaagttt cccaccaacc 180
caacaatgtc attactcagc caataacaaa ccttctcctt acccaccgcc cagttatcca 240
caaaggcaat ccctatatca accacaaagt ttgtctaccg cacttccaat gacgaacacc 300
accttttagca cataccataa acaccaacca agaaatgaga tttgcaacga gacaacctta 360
gaattcacc ccaattccagt gtcctatg 388

<210> 27321
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27321

tgctcanag aggaccagga atgacaagtt ggccgttga actagctccg ccccgagta 60
tgacagtcac cgctttaaga gcgttgtaca ccagcagcgc ttcgaagcca tcaagggatg 120
gtcgtttctc cgggagcgac gcgtccagct cagggacgac gagtatactg attttcagga 180
ggaaataggg cgccggcggt gggcaccact ggttactcct atggccaagt ttgatccaca 240
aatagtcctt gaattttatg ccaatgcttg gccaacagag gagggcgTgc gtgacatgag 300
atcctgcgtt aggggtcaga ggatcccgtt cgatgccgac gctatcagcc agtcctgcg 360
atatccgatg gtgttTgaag agggccagga atgcgagtat ggccagagga ggaaccggTc 420
tgat 424

<210> 27322
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27322

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agcttcacat gtagctacat catgtggtat caagagcatc ttcattctagg tgatgttctt 60
ttgcttcctc tattttttgt tcgggtcaatt cactttaatt ccttggttatt catcttattc 120
ttcgtatata tcctccattg tcttctgggt tggtgctggt tagagtagat tcaaaaaaat 180
aaaccgatta aatcttagat ttacacttgt tcttgcatth ttatgggttca aatnttataa 240
atctactctt gaatcatgtn tttgtgttga ttttaagttc tatcattttt cagtcataat 300
attcttgtgc tgaaccttta catctaaatt ctattccaaa atattgatta caaaaaaac 360
acacaaatct aagtgtaaat cacttaatct atgttgtctt 400
```

<210> 27323
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27323

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ntccacaaag agatatagga gggacgcgcg ggctgattgg accagtgcgcg tccccgagtt 60
tgacagccat cgttgcagga gtgctgagca ccagcagcgt ttcgaggcca tcaaaggatg 120
gtcgttccac cgagagatac gcgtccagct taggaacgat gagtacgcag attttcagga 180
agagatagct cgccggcggt ggacgtcgtt ggtcactccc agggctaagt ttgacccgaa 240
tatagttcta gagttttacg ttaatgcttg gccacggag gaggacgtgc gagacatgcg 300
gtcaagggtg aggggccaat ggattccttt tgatgcagac gtcctcagcc agttcctggg 360
tgaccacta gtgtagaga agggccagga gtgcgagttt agtcagagaa ggaaccaggc 420
cgatgaatnt gacgagg 437
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<210> 27324
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 27324

agcttcttag tttcagatga tgcagatgag cttgtagcta cctcatgcac tcctctaattg 60
 accatggcat catttatggc gctaaattgc tgggagttgg aagccatctt ctcaatcaag 120
 tttctggctt cagcaggagt catgtctcca cgggctccac tactagcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240
 tgatgggtgag ggcaattggc acatagcttt ttaaattctt cccagtattc atataggctt 300
 tctccactga gttgactaat acctgagata tccttcttga tggtcgtaga cctagaagca 360
 cggaatatt tctctaagaa tactctctta aggtcatcc 399

<210> 27325
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 27325
 ttcgggtcatc tcttcttttg accgtctcac tactaattca actaattctg tttggaaggt 60
 tgacatactt caagtttatg cttgacaatt ttctccacgc tccttgatca agtcttgtca 120
 tataaacaaa atcttaaagc aaaccattaa tagttaactt tagataactt tgaatttatt 180
 ttttaaaagt ttgttgtcaa taaaacttta gttcatgag gagttttgtg tcaacaatgg 240
 cttttgatgg cagcaacatg aaatcatctt ttgctgatgt gggttcattat aattttatca 300
 tatcttagcg acagagacta aaaatgaaaa tgcactatat tatagggact aaaatcatat 360
 ttaagggtcat aaattaagtt ttagtctttg tggctaacat agtaacatta gagaatattt 420
 tttgggtggtg taaaccacta ca 442

<210> 27326
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 27326
 agtttattat atgctttatc tgctgcagag accattgaca aattcttgca ggtaacagtg 60
 aagagaagga taatgggcaa tagactgtag ttgtaaaatg attggatata attctattga 120
 tggccaccct gcaaccacaa agtcaatttt tttgtaaaaa aaaagtagtg tatgcctttg 180
 tacattgtct tatagtaata gctgcagatg gagttaagtg ccttgacata tctgttacaa 240

ctaaatattc atgttaaagt catgttatgt acattcctcc taaaaggagt cttggaggag 300
 ggtgttattt gcaagaaaaa ttccaaattc attgcaagac tgccaatggt aatttcaaaa 360
 ttatcaagac aggaaatgaa acatgtttca cattgatatg ccttacat 408

<210> 27327
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27327

ntgcaaactc aagcagcact acgcaaaatt gcgagtttga agtacaattg cgagctgatc 60
 cagcttattt ggcatattac aattccaatg tcaacctaaa ccctagactt tctccccgcg 120
 ttacgtcctg agaaaatcgc catctaggac gacatattgg cagttttaga aataattgga 180
 gaatgtcttc tgcagatgat agcggtaaaa gttctgtaca tttgactcaa aggactcttt 240
 ccacacacaa ggaggagtct gaagatgatt cagcccaaca gccatatgac gatgaattag 300
 ttaaggcaag tggaatatgg cgtagacctg atgcaacttc attggcatct cagcacaaaa 360
 atatggttga ttttaattcac gtgattatat tgacattaac ttctcaattn tgtgaaatac 420
 attcagttnt ctgcatataa aata 444

<210> 27328
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 27328

agctttttgca tatttagaga tttctagaga gagaaaggtc caagttccag agagttttta 60
 gagctttttgc tgtgagaaaa ctggcagaga attgagcgag aagaggaagc catcctgaga 120
 gcatgagatg agtctgtgag tgattgtgag gttctagagg tggagcagac atccccacta 180
 cttgtatttc ttcaatcctt catTTTTTctt ttctctttgt tggaaaggaa gcttcccaga 240
 tatggagagc taaatcctct gttggttctt ccttgtacgt acatgatgta aatattgtat 300
 atctatttaa tgatgattta tgtgttctct gtgctatcag tacgtcattt cagtgtgttt 360
 ttgccttgat cacataaatg catgct 386

<210> 27329
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 27329

tatttgacat gaagaaaaat tcacaatggt caaataaagt tactccaaat atactttagt 60
 ttttcataaa aaaatatact ttagttttat gaactattta aaagtagtac tatcctctgt 120
 tcaatctgac ctaaaaatcc taaaagaatt ggtaggctca caggctcaca tcgattgcgt 180
 cgggtgtacat tattaatgca caaaatcttt atgactatgg caatgtgtta tagaacatca 240
 caccaactt atcagatcta cagatgtaat tatttttatt gacttatcca tctgtgtaaa 300
 attctaactt tttgatggat tttttttcta aataaaagac tacgggtggt tttttaatat 360
 gtggggtcag a 371

<210> 27330
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27330

agcttttagta aatattaact cagaaaaagc aatcactaaa cgtcaaatat tctagtatac 60
 atagcaaaaa tggtagggct ggcatagtga atagaaatag aatccttggt ttataactat 120
 atttagctca aaagtcaaag caggcagttc tcaggcaatt accgttgagt tttggtgcat 180
 attgtgaaaa gtaccataca tgagcaagaa ttacattgt tgcaaagata aggattggac 240
 tcccataaca ttaattaaat aaactagaca taaactgtgg aacattaatg taagtacata 300
 cctcgtgaat ataccaactg tatatactct ntccttcatg acctccaaca tatccatatg 360
 aagctgtcag tatttcatct tcaactgtaat ctccaatga 399

<210> 27331
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 27331

agttttgcgg atttggctct ttccagtgaaggatcgatg tgggtctgaa aaaaggcaaa 60

tttagtcatc ctgcttggac gaatgagaaa attggggcaa atgaagaggg tgaggatgaa 120
 gtaaaagccc atgctgtgac tgccattcca atacagccaa gtttcccacc aaccaacaa 180
 tgtcattact cagccaataa caaaccttct ccttaccac cgccaatta tccacaaagg 240
 ccatccctaa aatcaaccac aaagcctacc taccgcactt ccaatgacaa acaccacctt 300
 tagcgtaaac caaaacacca accaagatat gaattttgca gcgagaaagc ccgtagaatt 360
 caccccaatt ccagtgtcct atgctgactt gctcctatat 400

<210> 27332
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27332

tctcagccaa cttgcttcct cactagcagt tgctagtgt atcatctcat attccatagt 60
 ggactgagct aagatagtct gcttctttga cttccaagaa acagccccac cagctatgct 120
 aaatatatag ccgctggttg ctttggaaac atctgaaagg gtgttccaat ctgcatcggt 180
 gtatccttca agtataacaa gaaacctttt ataatgtaat ccaagggtta tggttctttt 240
 aaggtagctc attacctttt caatagcgtg ccagtgtctc atactangtc tactggtaaa 300
 cctgcataat aatcccacaa cataggetat gtcgggtcta gtacaatcag tggcatacct 360
 aaggctgcca atgatacttg catactcagt ttgtcgtata cattcaccag tgttcttaaa 420
 ccaatttaca cttggatc 438

<210> 27333
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 27333

agctttcaag tttgtagcca ttagaagaga atgagcatgt gattggaagt atgactgaaa 60
 atgttagtca atttgtcaga ttgattatga aggaatgcat taactgtatc ccagtgagag 120
 tgtgatcctt atattttgag agaaatgact atcatttagt accgattttt gcatgaatct 180
 ctgaagtatg gactgaatgc atgaaattga ggatgatgaa ggccatgtct gattgtgata 240

gccacttatc caaaaagctg accacgtgct tgaattatct atcctttaca cccagtttga 300
gctgaatgaa ttattgattg attgaacgat gagcctacag ctgtatctcc tgctaccttg 360
acttaagtcg tacgagagca tcatccacat gaagtgc 397

<210> 27334
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27334

ntgcagatctt ggtcttcgcc agggaaaggt ttaagtgggt ccgaaaagag gcaaatttga 60
tcatcctact aggacgactg agaaaactgg ggcaaataaa gaggggtgaga aagagggaga 120
aaccatgct gtgactgcc aacctatagc accaagtttc ccaccaaccc aacaatgtca 180
ttactgagcc aagaacaaac ctctctctta cccaccaccc agttatccac ataggccatc 240
cctaaatcaa ccacaaagcc tgtctaccgc acttccaatg acgaagacca cctttagcac 300
aaacaaaaaa caccaaccaa gatatgaatt ttgcagcgag aaagcctgta caattcaccc 360
caattccagt gtcctatgct gacttgctcc catatctact cgataaatca atggtagcca 420
taacccaac ca 432

<210> 27335
<211> 387
<212> DNA
<213> Glycine max
<400> 27335

agtcttagtt tacttacaaa tacaagccgt tagcagattc cactagaatt tttatctacc 60
agacacaact ttcttgtttg ttctgtcagc cagtcctaca gctgagcaca agccagagtc 120
aaacttgag caacctccaa aacagctact aagcctacct caattctcaa cctcatttct 180
tacacgtcta tgacaataac caccgaaaat gtaaaatcaa gcatgctcac actgccaggg 240
taaaattata ctaatatgta ctatgttact actgtaatac tagataatta ctatgctgta 300
atggaggctc tgctaggcct ttttccttcc atggcatctt tcttcttctg acagtttgtg 360
cagaggaatg gactacatgc tggagag 387

<210> 27336
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27336

ttgacctana tttgaacaaa aggaaatcgt taagttatatt attgtcaaga ntagatgggtg 60
 atgataaaga tgaagaagaa gcggaaaggt tattattaat gtacgttccg gtgagggaaa 120
 tcaaagtaaa ggggtccaaaa acaacgaaag tagaagtgtc aggaagagtt tggcagagag 180
 tggcttccaa gatagacca gatgcacatt gcaactgtgat gctaacttga caatggcgcg 240
 caaattggac cacggcctca ataacatcag aatttttcgg gacttgaatg aagatggggtt 300
 tcaaggcaag atcgctatct tggttaataa cgaggggtat ttttggcttg ttcttggatc 360
 caaggggcct accacaacct ttgtttgagg atgggtggcat ttggtgagag gaagatccaa 420
 tataattatg aacagtg 437

<210> 27337
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 27337

agtttgaatc ggacctcagt gtgaaaagtt atgaccattt gaatttctcg agagcttccg 60
 tggttcaatt ccgagcatct cgacatatta tgtgcccgaa tctgaccttc gtgtgaaaag 120
 ttatgaccat ttgaatttct cgagagcttc cgatgtgtaa tttcgagcga ctcaatatat 180
 tgtaagcctg aatcggagct cagtgtgaaa agttatgacc atctgtattg ctccaatgct 240
 tccttgggtc attttcgagc atctcgacat attatgtgcc cgaatttgac ctctgtgtga 300
 acagctatga ccatttgaat tctcgagagc ttccgttgt 339

<210> 27338
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27338

ntacagcaga ttnntagaat gtttcacttt cctagattgt aaaaaactta atgccattaa 60

cctaggggaat taaaacaaac taaatggctg agtgtaactg aaattgttgg caacccaaaag 120
 tcacccccaa cagccaacaa gtcagccacc atttggtctc ccaaaaggct gatgcctaag 180
 ttgccaattg ggcccttatt acaacttgaa ctaaagccct tttagttgat taacccaaaa 240
 catatTTTTg gtcagccaac tttacaagga ttggggcatt atttagacaa actaaacact 300
 ctaaaattga aataaagtgg tgtcatttag tcttcattt gggccatgat acaactcaca 360
 accttggact tttctccttg aaacttgggc ttgtattcaa atagtatgga cagcacttgt 420
 tga 423

<210> 27339
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27339

agcttataaa cccaaacttt taaagcttca atgcaaggaa acatgcttat ggctatgaat 60
 ccaaaatttg gttntagat tagaaaagca tgaaaatagg gactnttttg taaggatttg 120
 agctgcccc a tgattggcac tctgcaccta agtaacgtgg gagatgcttt ntcaatgggtg 180
 tgtagatata tgtgaatata tggcatanaa atatgttgcc aagtgtatga atatatggca 240
 taagaatacc ttgtacagt aatgaatagt aaataatgca tttcaaaata tgtatatttg 300
 tggataagca gtataagatg tctttcaaaa aatgaccgt gccaaaattg cagcagaatg 360
 tttccaaatg aa 372

<210> 27340
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27340

tctacttata tggcagggcg ggtctccttc actntcttgn ctccaacgcg agctctgacc 60
 actgttcttc ctccccgtga tgccctcttt catgtccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180
 gectaaaccc atccccgggt cataaccgtt ccccaacata actcgggcca tcattaccgc 240

tgcacgagac agacaagggtt gcccaaagag ggagtcacg gaggaatgc tgaccacctc 300
 aaaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatat ctccctcgcc tgacacgatg accaagtgcc cctccactac 420
 gaatttcagc t 431

<210> 27341
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27341

agcttatagg aaatattcca agtacaacat acgatgttgc tataaatact tgacatcata 60
 atcttgattg agattattat aaattattat taggatactt ctaacaatat tttcttatgt 120
 atctgttctt tgtctccaga cacagcagat gcttgatcaa ctctctgatt tgcatagaaa 180
 ggtaacactc tgtttatgct tttttctgtc atccttaaata atatattact tactcatagg 240
 ctggccaact actctgtttt tgatggacac acaggaagag atgctactgg aaactaacia 300
 tatcctgaga aacaaggtag caaaagaata cattttcaca tgtcatcana gtctatacta 360
 tgatgcactg ataaaatata tgt 383

<210> 27342
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27342

tagactatat ggggcccttc tttaaaagtt aaaaattaaa acaaagctc taataaaaat 60
 aaggaacgat gaaaaaaatt aacgtcaatc gccattttta aaaataacia aaaattacat 120
 acaacacatg ggaaatatat agtagaattt attaattaat ggcagtattt aaataaatcc 180
 aagtcattgg tgtgacatca catagattca ataatgccaa acaaaggat agtagtaact 240
 acaacgaacc ttacctcttc ttcatttaat ttctcgacct tggtcacaca catatactta 300
 ctatataatg tcatcacatc actccctcac tctaccaat tagtagtaaa ctctcttcat 360
 tctatatgga tcaagaaaca acaacgacaa gcgcatatt aggaacactn tttccttttc 420

atccagaaac a

431

<210> 27343
<211> 386
<212> DNA
<213> Glycine max

<400> 27343

tattttcgccc tatagtgagt cgtatgacaa ttcactggcc gtcgttttac aacgtcgtga 60
ctgggaaaaac cctggcggtta cccaacttaa tcgcctggca ccacttcccc ttttcgccac 120
ctggcggtatt accaaaaagg cccgcaccaa tcgcccttcc' accagtggcc caccctgatt 180
ggcaaattggc gcttgatgag gtatttcctc ctaacgcttc tgtgccgatt tcacaccgat 240
tatgtgcact ctcaagtccat ctgctctgat gccgattatt taagccagcc cgacacccgc 300
cacaccggtg acccaaccct tgcggcgatt gatatacctc gataattatg tatccaagta 360
tatcataact cgacttcatg ttatcc 386

<210> 27344
<211> 200
<212> DNA
<213> Glycine max

<400> 27344

aacaagcatc aaacaggcca ctaaacagca aagcgagaga gactagactg cctcatagga 60
gcactcccat aacatacaca gccggacgcc aggtgacgaa caagcgaaca tgggcccagc 120
acctgtgagc acctacccca aagagcgaac aaagaaagtg gcagcatgca aaagtgaaac 180
aagactacac gacgcaagca 200

<210> 27345
<211> 392
<212> DNA
<213> Glycine max

<400> 27345

tcgagatgag gaacagtaga agggtgaaac ttctgcttt tattgttgct attgagcggc 60
acctgcagat atgtcgcggg ggtcatgaga ccttggtgac gtcaggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180

tgatgtacct aagcaggcga gtcctgaca gtcaacagat tataggaata aagactcaca 240
aagcaaggag gcttgtggtg gctggccagc tgtgaattat gtgtgatatg tggattatgg 300
cctctggtaa tgcattacca aggggtgggta attgattaca aggctttaa aataagacag 360
gacgttgaga tgggtctctgg taattgatta cc 392

<210> 27346
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27346

agctnattga tttaaataaa gcctagaaaa ataggaataa ttaaggaaat caaagctaata 60
taatgaaagc taattgagga aagaatgact aattgaggaa attagagcta attaaggaaa 120
acaaattaat tgaggaaaga atgggttattt gatgaaaata tggctaatta aggaaaaaag 180
attaattaac gaaaacaagt taattaagga aagaagaata attgagaaaa aacatgatta 240
attaaggaac taaagacaga cttagtgcaa gaagccact aatctgcacc tataaaagaa 300
gaagagataa gaacgaaaag accaaaaatt tctaccgaat acaattctta tata 354

<210> 27347
<211> 93
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27347

cacttgatgc catctatnca gaacttctca naggagccga tccggttact tctatatttc 60
tcaaccagaa gtctgaactt gtggcattct tag 93

<210> 27348
<211> 102
<212> DNA
<213> Glycine max

<400> 27348

agccagtga tctatccgg tgacagtgat agtgtggcga taacggcgga catacagcaa 60
tgagtgttga atccgtttcc gaatacaata acgaactgca ta 102

<210> 27349
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27349

natgtttatg gtttttatac nttgatnnac ncacactata tagtactcaa nctgagtg 60
 ctgcannatc aaccatatag gtacggcgtg ccttggtatt gataaaaagg atgccccaca 120
 ggaggaccat tacacaagat gcaaacgacg atntgcataa ttaatgccaa acgggctatg 180
 catgcaccta tgcggacacc taagacgtaa aattatatgg tcatttgatg ctaaggctca 240
 ggattcattt cctttatatac agtcgaccca acgttatcaa atatagctct tcacataac 300
 gagcattatc cgagtcocatt ttgggcgtcc ggcgaaatct ttacagcatt cacccttcat 360
 gtgtgatcac atttcttaaa actagtcatg atcgtgaaca ctccaaacat aactggaagc 420
 atctctttta ataccagggtt gtttctactc gacacttagt ttgctgtggt ccacatacta 480
 ttgataac 488

<210> 27350
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27350

agtctttgct tagaaaaatg cagaaaccaa aaaatacccc tggttttcat acagccgttg 60
 tccatcgagg tactgaacaa aaccatcaat gagatatgga ccaacataag aagccaaagt 120
 gtttaacaat acaagaaaag ctgtgataag aatctccttc catgctgaaa ttattaacga 180
 tttcaccaac ttcagtgtgg tgacactatt aattccacca caatcagcct caactttctc 240
 tctgaaagtt ggaaaagcac caattacact atctctgctg tctagttgag gaacatcctc 300
 aagggtccagg gtcttcttat taccaacggc tataagagga cccaccaag agaaggtaag 360
 aatgctcaaa attccagcat atgagaaagg cgtaactgag t 401

<210> 27351
 <211> 398
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27351

gcctcancta tcatattaat agttcatact tttatttctg gagaactgag atcctaagcg 60
ctatgtgaat atatgctgat tgatgatacc cttcactcgg aaagagatct tataacagga 120
agctagttga ccaattaact tttcactata ttgctgtatc tgagtcatgt attccttgcg 180
aatgtaactg gtaatcatct ggtaatcttt ttaatagaga atttatattg gtacataatt 240
atatatatat ataaaataaa ataacgagat gagatggcta aagtgatggg taaaactata 300
aaaaaaaaatg ttatataaat ctgttgataa aaatataact ttttaactata tatcaatccc 360
tttttacttc attctcttat gtattcttcc ttgacaca 398

<210> 27352

<211> 379

<212> DNA

<213> Glycine max

<400> 27352

agtatgtatg atttacattc tcccccttcc tcaagcaaatt tcttaattct tcttgacatc 60
atcaaaatct tcatgattta cattctcccc ctttttgatg atgacaacca cctgtagggt 120
atgagcatca acaaagaaaa aatatctatt tgcataatag ttactcccc ttggttttgc 180
aatgattgct tatatgaaac agttgaagat ttcataattt tcatatataa acctattgtc 240
tcataaaaaa tagataattt ttcttactat tttatctgtt atctgtctct cccctttgt 300
caacatcaaa aacaaatcat gaatagagag gagatagacg ttaccacttg ttgcaatgta 360
tgagaatcaa gtgatacct 379

<210> 27353

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27353

atgatatatg tgagggactc aggatcacta gtaattataa attccttgcg ataaaggcag 60
tgtggccttg ttatcaaagc ccgtacttag gcatacaact cctaatacata agttgaatat 120

tagcgttatt catgcttcca cgtacgttta tatcattaca tagt 404

<210> 27356
 <211> 75
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27356

catctagcag agggatgttt acctctactc tgctaaatgt tnccaagatc tccttctcta 60

cctcttccctt ttttt 75

<210> 27357
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 27357

acgaggccaa aagctatcgg togtcttagc ctacaagcat tccatgtcca tgaagatggg 60

gacaatatgt atgaacgatg gatcgaccga tctaagaatt ttctccataa atcttacctt 120

atcaagccgt gtacccatct ctctagctga ctggagattg ctgagactct ccagaaatag 180

tgagagaaga actctcttta tctcatatgc agggctgcgc actccactgt taaaggggtga 240

agatgcacct tctcgacttg tgttgtgccg caggctcgaca tagcattcag aacagcgcgt 300

gtctaatacta cgcagact 318

<210> 27358
 <211> 294
 <212> DNA
 <213> Glycine max
 <400> 27358

ttttcatgtt cacttggctt ccatgtcatc accgggagta tatagaactg taagagcacc 60

tctatattag ccttgatcaa gtataaccac atcattctat agtgctcatc taaaaatgat 120

gtgaagtact tgtttccacc cagagatggg accgtttaag gaccacactc atcataatgc 180

ataaaaccaa atacgctgca agctatgatc agcaaattggg acttacagga attttttggc 240

tgctagccga tgagacacac attacacacc ttccttggtg cttctagtct tggc 294

<210> 27359
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27359

agctttatga tgaatcaaga ttgattcaag gagtttcgat gataacaaag atgatgacaa 60
 aaaagctcaa aagtcataac aaagatgatg acattcaaga atgagttcaa gattgagtca 120
 agaacacttc aagaggaaat ttgatttcaa gaatcaagtt tcaagattca agaatcaaga 180
 aaagactcaa tcaagataag aattaaaaat atttttttca aaaactgagt agcacatgaa 240
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt accagattat 300
 tgtaatcgat taccagtagc aaaatggttt tcaaaaagct ttcaactgaa tntacaacgt 360
 tccaattgat ttcaaaatgt tgtaatcgat tacaat 396

<210> 27360
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27360

agcttggttta cacttcctcc tccttaagca tcatgtcggt gtgatctccc cgatcctcag 60
 tggcctacac ggatgtacta actcgaatct ccaaatgagg acatcacctc tctcattaaa 120
 cctcacaggg gtcacttcaa attcttgacc atcgtgagac acttcaaact actccagttg 180
 tcggcaagac ataaattccc aaagaatgta gtagtaccga cagtgatcta tctactggct 240
 ccatgtgcac tatagtgtga cacatgtaca ccgacatgtc tgtctctcaa cacagccaca 300
 ctctttctat ctacctacta cgccaagctc acaaagagca cggctccctc aacatctcct 360
 gaccctgana gttgttggtt gtaccag 387

<210> 27361
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27361

tcgattacac acatactgta atcgattacc agaggagaat ttcatanaat attctcaaca 60
gtcacatcgt ttctgttggg ttcttgattg accatcaaag gcctatatat atgtgacttg 120
agacacaatt ttttaaagag ttttcaaaac aacaagtgtt aatctctcaa aaagcaaaat 180
cgtttatcct cttaagaatt ccttgccaat tcaatgcaat tcataaggaa tcattgagtg 240
ctcagattgt aaactatctc ttcaagagag atcattcttc ttctctctg atcactaagg 300
ataagaaccg aggtctttgt gtaaaaattc tacacanaga agattgtctt gggttaaact 360
gtaaagaatt acaagatagt gaact 385

<210> 27362
<211> 380
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27362

agcttttgtt gctcattgac tccagattgc tgcatagaag gacaaagatc tgaatgggtga 60
tctatagaag aacatagacc acagactctt gcaacagggtg tagatttctg attcatggca 120
agctgagtta ctaggttgac caaggcatca agttttcttt caagcttttt attttcagta 180
gatgaagatg aatccatggc cacctcatgg actcctctaa gaacaataat atcatttctt 240
gcattgaatt gttgggagtn ggaagccatc ttctcaatca aattcctagc ctcagcaggg 300
gtcatatcac caagagctcc accactggca gcatcaatca tactcctctn catgttgcta 360
agtcctcat agaaatattg 380

<210> 27363
<211> 431
<212> DNA
<213> Glycine max
<400> 27363

tgtggaataa ttaatctctt tgagagtact tttctttgga tctgtttatt tgattggacc 60
taacacaaaa gagtgcgcat aaaatgtaaa attcactaaa aaaatagcta aaaaataatt 120
tgacaaaatt atctatatat gtacatgtgt gtttgacgac atagtaactt atttgggtta 180
cagttgagta ccattattga aggatacaaa actcttttgg cttcaaacaa atcgaagaga 240

tttgctcaag atttaggtgt atagtgacta ttactattgt cttataaact aatacacaat 300
 ttaaactaat aatttctaga gatatacaaa gtgtcttgaa agcatgaatt gtgacttata 360
 gaaagttatg aagtgttaga atgcttgatt gcgcatgaat tctctaaaga tatacacact 420
 taaagtaatt g 431

<210> 27364
 <211> 282
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27364

agcntttata gggagatgat gatgatgatg gtgttgagtg aatgggtatan gaggagggtt 60
 ttggtacacc gggattcccc taatgggtct tagaaagcca aggtcttggc ttaggctttg 120
 gtgctgaggc tggaacagtg gctgctgctg ctggtggaag tagtggtttt tctgaaaggg 180
 tagttggaag gggttggtgg tgggtggtggt ggcattagtg ggggtggcac cgttttggaa 240
 gtggtgatga tgaatgaggt tagaggtggt ggtgttgag tg 282

<210> 27365
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27365

catccttgaa aggaaaaaaaa atacatggaa actcatgaag gaagcagttg tgtcataaag 60
 tcacatcaca gttaataact cctcaacttc agatatagct cccgtaagaa tttcaaagtc 120
 acaccagag ctatagcttg aaaaggtgtc aatgagaatg tggcaaaaaa aatgtatgat 180
 tcattcctta aaagcaatag cttggtgaac agtgaatggt aactaccaa aaaaatgtaa 240
 gattcattcc ttacaagcag tataagaatc aagggaattg gaatgaccct ccaatttggc 300
 tgctgccaga gggaggatca atagcaaccc anaggagtga gatagtaatt gaaattagcc 360
 ccgaccaaac atacacaata gt 382

<210> 27366
 <211> 403
 <212> DNA

<213> Glycine max

<400> 27366

agctttttgt ttagcctaaa gaacaagcca aacaaaaaat tagaaaaatc aagacaaaaa 60
ttcatcttat aactttttta attatgggat ttacatataa aaaaaatggt tttcaattgt 120
taaaacttga tttgatctta ccatgggtat gtctccatta cgtactacac catattttct 180
tatatcaaaa aggttagctt gaactttgac atatgaagct agcaatagta gcaaagctaa 240
tgtggtcata ctccatgaaa aactcatttt tatcttccct tcttatctat gcctttcttc 300
cacttctttt aaaaaatggg tgattttag aatgttatgg cataaagcta tttatattgt 360
acttgcagct ttcttaaggc aactgataga gcatacaaac aaa 403

<210> 27367

<211> 362

<212> DNA

<213> Glycine max

<400> 27367

catatacgct atcacattgc acattactct tgtctttttc caacaataat tcaaccaatt 60
gttcacctct caatactgca attctttgca tggtagatat tgatgaatta attagaataa 120
tggtggaaaa cgaatctttt gacattatat tactactttc ttcaagtaac aactggtctc 180
tatctgccag cttcaccttc tcttttgcaa tgtcaccatt ttcagatata tttgatttca 240
ttttattggg agagacaatg gataggaatg aatgtagccc gggttcctca acaggctggg 300
tattctcaga aagaacatta ttagactgga aatccttggt gtctgcaatc gccatgtcat 360
ca 362

<210> 27368

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27368

agttttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaag gaatagaagg gaaatttcca atcaaagaaa aagagaagga 120
aaatttccaa tgaaagcaaa aaagaaaaga aggaaaattc cccaatcaaa gagtggggaga 180

aagcaaaaag aaaagaaagg aaattcccaa tcaaagaatg ggagaaagta aaaaagggaa 240
 ggaagaaag ttcttgaagg aaaaacagaa ggaatatgca gagaggtctt tggaccggac 300
 aatatctgaa caatacagaa ttgtcaccaa atgaacgaga aaagaaggaa agggaaccac 360
 gacctacaat agtcttctcc cttnngattac caaccaaatt cccg 404

<210> 27369
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27369

gcttctagag aaagctcatg aagctgtctc ggtaaaaatg ctaccctacc tttcgtcaac 60
 cgatggatat tctcgaaatt tggctgttaa cttcacaaga taattttcca tgatcagacc 120
 gttgggatct ttgagaaaat gtctggagtg tgctagaagc ttccggtccc gagagcattc 180
 cttatttaag cacttcagcc tttgctttca tgtagcttan gaaaaatgtc atttcttctt 240
 ctttctttct tccaaatcca tttctaaagt cccaatcact ttctccatca cccatagcca 300
 ccattagcca tcacaaacca tcgttgttct ccattgaaac cccacactaa gaggaaccct 360
 tcaaccgaag cggaatcttc caacttggct tgcggtttcg atagagaatg aaaccctaatt 420
 ctgacctttc attntctttc aacgtaacca tgattc 456

<210> 27370
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 27370

atttttgttc tataactatt ggtcttcata tgtgcaccaa gcttcaattg gaactcatct 60
 tacttatcaa tttctttcac atctaactgg gagatgcaag gtacaacccc ttattgatgt 120
 cgtacatata ttttcatcta tatcagtgca tggaaagata tctacggctt ctattataaa 180
 cattgacttc tgaatacacg cactgattgt tggtagtggc aagtgggaaa tcctgagttt 240
 tgaactcatt attaggcata tcattctgtt cagcagtagc tatttaattc tctttcatat 300
 ttcatgact aacacactgc tcggatacta gatgcatgac ttgcatctaa aaacactcat 360

gatgtctatt acccatgtga atgcagaatc tatatgaa

398

<210> 27371
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27371

ctggagtcac gtaatccatg ctttcacaaa caaaattact cactcttact tatgattagg 60
attgcgagaa cacacacatt gattacatcg taagaaaaat aatgacaaac acaagaattt 120
aacgtggtcc gacacctctt gcctatgtct acggaactgt ctcaacagat ttactatca 180
taaaaatgat tacaagaatg taaccaactt caaatagtat atcactcaac aaatccgagt 240
attttactta atggttacaa gaaatgataa cactctcata caaagacaat tttctctcaa 300
caaagagatt ttgtttcaca atttctcttc ttacacacac cctcgtttct ccattaaatn 360
ttttctctat ttataatgaa gatggtcacc aactataata aataagtttt cttagaagtt 420
gaaataaaaa caactgtcaa tgcacttatt caact 455

<210> 27372
<211> 402
<212> DNA
<213> Glycine max

<400> 27372

agtctataca gattagaagt gatgaaaaca gttgtgttac gtacttgtaa agaaatcaaa 60
tgtagcagtg gtataataat tacatatgca cggttgcggt tgttgttcca actcaaatg 120
aagcacaaag catttgcatc ctctctgag ctttaaactt tggaatttcc ctattgagcc 180
tcaattacta gccattaggt gatgttgaaa tagtgagttt ttttttttgg tgtgattaat 240
gaaacagtga gatgagggcc aacagaacgt agcaaacgat ggaaagaaga tcaaggagat 300
ggctttaaaa ttaaattaag aatggcgagc actattgtta tcctttcaac tccaagtcta 360
gccatatcat cagtgatgat ctctttcttg ggcacctat ga 402

<210> 27373
<211> 237
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27373

ttgaagctnt taaatgaaga gagagcttca gattttccta ctttttatag acccaagtn 60
ttctagaaaa aatcatctgt gaaagtaata aagtattttt tacctccatt ggaagaaaga 120
tntattggac cacatatatc taaatgaatc aattccaaaa cacattttgc tctccatgac 180
tttccattan ggaactgaga atgatgttgt ntgctaacaa cacattcttc acaaacy 237

<210> 27374
<211> 403
<212> DNA
<213> Glycine max

<400> 27374

agctttatnt ccaaaatcac atctacagga ccaaggctct tcatatcaaa attattagac 60
tagaaaaact tcacatcatt tatggaatgt atattactac caaatatcaa tatgttatcc 120
acatacaaac ataaaatggc acatccatta tcatacaaat gtttcactac acacatttat 180
cactattatt aatttgaaaa taatacgaaa gaataacttg atcaaacttt tcatgtcatt 240
gctttggagc ttgttttaag tcatataaag atttaacaac caagaatcta taagtagtac 300
taagcaaaga atatccaaca aaaacataat taacagttta tgggtccaatt ttgcttttc 360
ttattaatag ggaatgttaa ccttgctaga cccccccaca ctt 403

<210> 27375
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27375

gcttaaactct agttttaatt ataaattact acaagaaaat tatgttatat attattttac 60
tgcaaaactaa gaaataaaaa aattacttta aagtaaaaat ctacttctaa ttaaagatta 120
cttaaaaaaa attatcatat aaattatttt actggaaaact acaaaataaa ctataaatct 180
aatttaatta taaaattaat aaaaactata cattcaaact gctataaata attacttaca 240
taaaattata acaaaaatgt attatcaatt acaattattt tgattgttat ataatttttt 300
tcatatttac caactttttt caggactcaa ttntttttta tttaataaaa tatcatgaca 360

tattcctttt cttttataca cacaacaag ggatataaaa tataaaattc atttaattaa 420
 aaaattatta acaactataa attcaaactg gtct 454

<210> 27376
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27376

gtcttatgaa ttctttcaaa ttaataagag aattgtatgt tatcacatct ggttcacatc 60
 ctgcatcttt catttctca aacacagtga ctgctccagt taacatccct acctttccat 120
 acccataaat gagaggatta taggtgacaa tgtctggcct aagaccaga gctttcattt 180
 cttcaaataa actcctggca gtttctatgc ccccttctct ggccagacag cctatcacta 240
 tattatacgt aaaaactgag ggcgaaaggc cagccacaac catgtccttg aaaaggctta 300
 atgccaatc ccccttgctt gattttgaaa gcctgtgaag aagatcatta caagacctca 360
 cttttggcag aaccatgaac tngttcttct tccaaaa 397

<210> 27377
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27377

tgagagttta aatccgttga aatcctatc tcggcgactt catttgatta atncaancgc 60
 tcaattgttg cacgtgtctg catcgatctt tttccttgta cgctctaaag gcattctatc 120
 tttatgacta ttcttttgta tacatgcgtc tatgttcctt gcatgttagc attaatTTTT 180
 tcatcctctg tgctgcttaa catctaattc atcgccgaca tggactcacc catgctattg 240
 cattccaaag ttacgtaaca tgctaaaaca ttttatnttc atcttggcta acacaactgt 300
 cctttgcagt tggggaaagt atatttgaaa atttcatagc atatcttcca attctaagac 360
 aaaatgtaaa gaaaaataaa atgatatagt ttcatagaaa agttctttta gctctcctat 420
 cagaatcaaa tatacactct 440

<210> 27378
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 27378

agcttcttat ccaaggttca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
 gtggatggcg cctcctctca cctcttctcc tttgtcttcc attgcatctc catggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccaa cctccataga agccccacaa 180
 gcaggcttcc atcatcatac aacaaaatgc aatgtcatgt ataaaaacaa agcatcataa 240
 atcaaaataa taaaagacca taaaatagag taacaatgaa tccatgctat atcaaaaccc 300
 ttcaacatat aaaagcccaa aaatacaaga gaatataaat cgttcttcat caaaccttaa 360
 tcaacacatc agaatgattt atatgaatga agagcgaaa 399

<210> 27379
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 27379

actatatagc catttccatc aaacggtttt cttcaccttc caaagagcat caattccac 60
 ttacacacaa agggaaatta aagtaacaat ggccctccaa aggcatacc tctcgttact 120
 ttttatcatg ttttcttttg tggctggcca tagcacggtg ctatttgatg atggtagtac 180
 gtccaaggac tttatcaaac aaaaaagtac agatgttttg agcttaaaga aatttgtcaa 240
 gttgggtgac attacttctt cgcttaaaac ggttaacgtc aatgattat 289

<210> 27380
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27380

tgcttcatat aatcctgagc tggagtgagc catggatccc aagtcacctg tgccgtagtg 60
 acggctacta cataatcatc gtcaatatct gcctttgctg cgcctgaaac tccttctca 120
 gcagcctcca ctggtgtgtc ctgagcctct gcctctgcct ttggggtatc cttagcctcc 180

ccagcctctg gagtgtcttc agcggcctgt gtttgtggct cctgngccac aagagcctca 240
 ccccccaaaa aggaaggctg gactccagac caagctacct gtgccaagaa gtcctccatg 300
 ctcatgatca gccgctgctg agataaattc tgcatactct gcatgaccag gaaaaggctg 360
 tgatgaatgc tntgtagcat gggcacgata gcagcac 397

<210> 27381
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27381

ctaagcttaa tatgtctcta attaatttcc tcaatagtta attatttata ataaagaaca 60
 tgaggactaa ataataacgg taaactatgt ttgcaatcct tttactttta gtaaagtatt 120
 agtttcctta ctttgatcaa tttggctctg gaattttaga aaaaagaaaa ttgtttttgt 180
 ccctcgtaa agttcaagaa tcaagtttcg ccaaaagttt agggactatn taagaggtta 240
 gtttagataa tgaaattttg gaaagattga tgtgtggtta cacgtaattc ggaaaaatta 300
 atttgacata caattttttg aatctataaa taaattgtcc gtagtgtggt gtttcgcttg 360
 ttgttcataa tcattttcaa ctaatatttg ctatggactt aatattcacg actttgaaat 420
 antttagtaa ctgagtatca tttatag 447

<210> 27382
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27382

agctttatgt ttaatcaaga ttgattcaag gagtttcgat gataacaaag atgatgacaa 60
 aaaagctcaa aagtcataac aaagatgatg acattcaaga atgagttcaa gattgagtca 120
 agaacacttc aagaggaaat gtgatttcaa gaatcaagtt tcaagattca agaatcaaga 180
 aaagactcaa tcaagataag aattaaat atttttttca gaaactgagt agcacatgaa 240
 tttttctcaa aaccttttac caaagagttt ttactctctg gtaatcgatt accagattat 300
 tgtaatcgat taccagtagc aaaatggttt tcaaaaagct ntcaactgaa tttacaacgt 360

tccaattgat ttcaaaatgt tgtaatcgat tacaatgatt tggtta 405

<210> 27383
<211> 120
<212> DNA
<213> Glycine max

<400> 27383

ctagttcact acttctagta gttcaagata tgcttctaga ggatttctgt tgccaaaaag 60

ttactctcag gccaaagaaga tactatgtcc gatgggtatg gagtattata agattcatgc 120

<210> 27384
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27384

agcttgtang tatatagaga tgaatgaagg gagagagaga gaagagcatg aaattttgtg 60

ctctaaaaga gctctgaaat ctgaagttaa tattcaaagtg atcaaagttg aaaaaaaatg 120

cacacacatg acctctatct atagcctaag tgtcacacaa aattggaggg aaatttgaat 180

ttcaattcaa atttcacttt aatttgaaat tgaatttgtg gagccaaact ttggagccaa 240

aatttcacta attatgatta gtgaatttta gttatggttc agcctactaa tccaagatca 300

attccaagat tctccactta gtgtgcttac gtgtaatgag gcatgtaaag catgaacgac 360

atgcacatag tgtgactata tgatgtggca atgg 394

<210> 27385
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27385

tcttctgctc aacagtatat agccgttcat ggctcctttc cattctatta cctccaatg 60

ccttatgtgc caaatgctgg aatccaagcc accattgctc cttcagctcc ttetcaagcc 120

aacatagcta ctgctagtgc agcaccttca aacagatgga atccggattc tagtgcaccc 180

caccatgtca ccaatgtttc tcaaaatata cagcaattaa caccttttga agggtcagac 240

cagataacac ttggtaatgg acagctcctt gacattaact ccacaggtct aacttcattt 300
 caatctcctt taaaccctac gtttctctta attcttagca atttgctata tgttccttca 360
 attactaaaa ttcttattag tgtgagttag ttttgtaagg ataatctagt taattntgaa 420
 tttcatccta ccttctgtta ggtgaaatca t 451

<210> 27386
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 27386
 agctttgtat attgggtgaa gcacgctaag atgtcgggtg gttgctatga cgaatggctc 60
 catcgccgca tgagtattta acctatgaag aaatcaaaag taattaatat acacttgaga 120
 gagagggtatt agagattgaa tttatctata tatgttgata tatagcaatg aaaatgaaaa 180
 tgaaaattta taccaatggc tcatgagttg atggtagcaa gagtcattta cgatgacata 240
 agctttggct agtagccaaa ttgtgctctc aacaccttcc ttagcaggta agacgacttg 300
 actgacggca gctgacagat ccccgacaga atgtggcaaa ctttaattcga tggccactgg 360
 ctttaaagtt ccattctctc tcaataaaag gat 393

<210> 27387
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27387

ttcaccaaag gggtatcgga attgacgggtt acttcccgcc aattactgng acacgctcaa 60
 caccatgaac aaaattgaaa aggggggaaaa aataaaccca aaatcaaaat cgaagagaga 120
 gagagagaga gagagagaga gagagagaga ggtgaaagcg atagacgtaa gagtgaagga 180
 aggtaatgga agagagagat aagagagaga ggggttttga ttgaagggtg aattgaaact 240
 gcagagaaaag aaaagggtat taatttggtc ttctaaaaaa aaaaaagttg cttttttagg 300
 aattaagatt ttctgcaact ccttaccac tgggccacta tacattagaa ttgtacggga 360
 cgaacttctt atgctaagaa agtgaccctt ttgccctcgg atttcccttt ttntccctct 420
 tttgcgtgct ctatcttgtc agcaatatct ttc 453

<210> 27388
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27388

agcttgtgct tatcaaatca ctctacatt tcattctctag catgcatttt ctttctttac 60
 cccctcctca catttggttt tttagggaaa aacaccataa ctaaagcgcg cgcaagggtat 120
 ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcaggaacag 180
 aggaaagccg acatgtcggc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240
 agtatgaagc agctcataga gaagaacgcg gccaccgccc tcgctgtcag ttcggctgcc 300
 gaagcagacc cgactctctt ggcaactgcg caccatcctc cctcaaacac agtaggacgg 360
 ngaagggaca cactgnggca cgat 384

<210> 27389
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 27389

ttatgggggt catgacacta gttttttctc tggaagggaac acaggcccaa cttcaaaatt 60
 cacaagcaca aatactttca tttgcttccc gaatctgata ccgtgctttt cgatgcctga 120
 ccaggacata tatgcaaagg atcccaggct agaaaagcct ctaaaatcta atatagctac 180
 atatgagaca tagaagcata tattattttag aaacatatcc cttgtggaat ctctctttct 240
 tatagatgat caccagaaag ggaatgaact caaatactat tccaatttgg agagaataga 300
 aagagattta tgaaggcaat gatttataat tgttattttg tttta 344

<210> 27390
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 27390

agttttctaa tggtatgcct accccttcac ctaataatat ttgcaaactg aaacgctctt 60

tatatggatt aaaacaggca ccaagagtat ggtttgaaaa gtttcgctcg acactacttg 120
 tttttgaatt cactcaaagt caggatgata cctctctttt cctacacagg actcctaaag 180
 gcatcatgga gcttcttggt tatgtggatg acattgtggt cactggctca gatcaagatg 240
 ctgtttctag aacaaaaaat cacctgcatt caacctttca gatgaaagac ttaggccatc 300
 tcacttattt cttgggttta gagggcgatt ataatcacca aggcatttct ctatgtcaac 360
 ,acaagcatat tcaaaactgg gtccactagc tggactccc 399

<210> 27391
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27391

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 tgcacatact tccttacgaa cattcactcg cacaagatat tcttctaact aagaaaaatg 180
 caccacgca caatcaaggc accttcgtta cctagatcac ttatatgtac ttccaagggtg 240
 tatttgctac ctacatcaca tgcatttctt tcgctaaatt tacatacatg catactcaaa 300
 gcactntggc taccaaaaat tgcatacgtg cacattctgg tatttctaata acctatacat 360
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 attcaagtgt ttctgctact 440

<210> 27392
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 27392

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 ctccctcacc tcaagcttgt aagattatgg ggtacctatc acatgtggta ctaggtggcg 180
 gtcggggcat ggtgcacaac aagttttcca catccacaat gcgcgcataa acccaccatc 240
 ccctgttgcc cacctccaac tgagctcacg tactcccacg tagcccatat cctcgtttat 300

ctcaagaccg ggtcccccac aatcctccca agcttccaca acatccaagc gaaacaacat 360
tcaaacagca caagctatca ca 382

<210> 27393
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27393

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catatggata gataaagact aagatgcaac aatcaatata aatgtcactc aaagagttag 180
gcttgtaaaa agacaaaact cttcaaaact caaagcttaa tcttcatgtt tctcccata 240
tctttaacat atttcgggtc cgctgtagca atgaatgcat tcttctaata aacaagccat 300
gaatatgaca ccaaaagtgt ggccgctgaa atgacatgaa tgagataaac aagtaatact 360
aaaaatatat tctatcttct ccacttagat cagatcctgt nttggattga aaatgtaagc 420
acacatttgg atctcctcaa t 441

<210> 27394
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27394

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tccttcagat ttactatctt ttttttctta tatgtaaata taaataatat aaggctatgg 120
cttatggaca tggtcatttt taccocctaac aatcttagaa gtaaataatag accatgtttt 180
tacgcgatac cettatacca cctactcttt ctgcaaaaact tcattactgt tgttcaagac 240
atacaagtga gcttgtaaca aatcttctac acttgagtg atcacctgca gtctctctga 300
acccttacca ccgactctgt catcatgctg agactcanga agcccaacaa gtttagcctt 360
ctctaagtat tctgaacaaa attcaatggc ttcttcttc 399

<210> 27395
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27395

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 ttggtttttg caaacagaa aataaaaaaa agtacctcag gtacttcac c attatttaca 180
 taatgaaata tttatatatt tgtgccgata aaaaaaaaaac cttacagatc atagctacac 240
 actaacagca gtaccagata tcacacagat aacaacatca gacaataatt ccaaccaaga 300
 ggaaatcatg actacaaata gtagaggcaa taacagacca taatgcaaca cacacaggcc 360
 caagtacctc agtgacttcg tataaggacc agaggagctg caagcccgat agcagattct 420
 agaattcctt ctacttcgta t 441

<210> 27396
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27396

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 aatagcattc aaacctgaa atggctgaca tcgttctgcc aataccatta cgcaagagag 120
 aaagcttgac atacagaaga agggatataa taaatgctga agcgattca aaattaggtg 180
 atcactcttc aagcgagat cagactacaa agagccttca tgacacgaaa cgactataac 240
 acgtgaaggt ggcgctacca accgggagcc atggttcgcc aagagctgaa agcctaggtc 300
 cctcatcctt acttgatata tggaaacatg gtggaagctg tgattgtggc ggctgggaca 360
 tggc 364

<210> 27397
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 27397

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 tttccacgtc cacatcatca agcacgtgca gccacgctcc tttcatcatc aaccacctct 120
 tcccttccctc aaacgtaacg gagtggccgt cttcatccca aacttcccgc accggaaagg 180
 ggaaacggcc ggtgcgccag aaaacggagc tccgccacct ggtgttcgga atcgcgcggt 240
 catcgaagct atgggagcac agaaagaact acataaagac ttggtacaag aaggacaaga 300
 tgaggggagt ggtgtggctg gacgatcgcg tgaagacgaa cccaaaggaa gggttgccac 360
 caacgaaggt gtccaccgac acctcgaatt tcgtatacac caacaagctg gggcaccgct 420
 ccgcgattcg aatctcccgc atc 443

<210> 27398
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27398

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 acaagacttt cctagaagaa atgtttctga aatgttaaga aatctagcaa atagccctaa 180
 aaaaaatggt ataacttggc aaggatatga tataaacaag tattcctttt atacaaaagc 240
 acaagatgag aaaagtacaa tgcaaaatag tggggtcacc ctaagggtac atgatgacaa 300
 tccccgtgta gctttcatcc cttactttgg gttcattgaa gaaatttggg agcttaacta 360
 tgtcaaattt attgtctgtg ttntcaaag taaatg 396

<210> 27399
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27399

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 tctttccagt tagccacatt tgccgtgtga ggggtgagaa tcctcaaaga acacaatcat 180

ggagaggggt gagaagcctt aagtgtaaat aaatcccgaa caaatagatt atgattattg 240
 ttaattaaaa acatataagt cttgtaatat gcatgcatat ttaaggagaa ggaaagaaag 300
 tttctctcaa aaagaaaaga gaagganagg acgtagataa aagtctatgc tattcattnt 360
 aataattcgt ccaaattaca aaacaaaagc tattatttaa cttattctac atatganaga 420
 gaatcatgaa aggctaaaaa aacagc 446

<210> 27400
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 27400

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 taccattaaa aatataatta agcctaatga taagaatttg attttgtatt gtcaaggtaa 120
 aatttatacg atcaatctat aaaaaaacat tttaaataa taacgggtgta cgtatgttta 180
 aatcacacaa ttgttaatgt atcataatta aattcaaatt atgatttcaa agagtatatg 240
 ttattgatat tcttttaggt ttgggtggat aagaacatg aggaaaggaa gaaagcatta 300
 tggaggtggc caatgggttg ttaaactagt tagggtaa atgcactttt atctttaaat 360
 gaatataaaa tttagttttt gatagtgtaa aaagtgcgat aaata 405

<210> 27401
 <211> 137
 <212> DNA
 <213> Glycine max

<400> 27401

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 agctggggcg ctttacacaa ggtcgttact atgcagagag agagtgtcaa aaccacaaac 120
 actttctgca tcatata 137

<210> 27402
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 27402

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cagtactata cccggaagat gtctctttgt tgggatgtat gaagatagaa catttcctgt 120
tgggtcctcg atttatgga tcattaagat taaaatttag taagtagcta gttaaaagat 180
tatatcctta ttaatatata gagtacgaaa tgccaaagta atcattataa aaaaaaatgc 240
caaagtaata aataagagaa ataaaggata tacatgaaaa ttacaaataa ttttaataaa 300
aatgacaaaa ttaattaatt ttttaacta tatattagaa cctgataaat ttatgactgg 360
tccaacatcc aaagttttaa attagaacct cataatgttc ttaagta 407

<210> 27403
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27403

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tatcttatgt acaagaataa ttgtagaaat tctctcatct ttagagaaac tagatgacaa 120
gtttctacca acttaggggg agccctagca gatataaaaa aaagttggaa agttaaatta 180
tctcacaatg ataataacat acatttcctt tcatgttaat gctgtcagtc aatttctcaa 240
tgcaccatgt gatagtcatt ggtatgtagt tggtcagatc ctgagatgca tcaaaggatt 300
acctggcaaa gggcttattg atatgaacaa ggctaacatc attgtacata caaatgcaaa 360
ttgggaaaga gatgctagtg atagaatatc cacgataggc tattgtgttc ttattggtgg 420
ngacttgata ttgag 435

<210> 27404
<211> 371
<212> DNA
<213> Glycine max
<400> 27404

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ttatttgagg ggttttatcc ctcatgttgt gataatttga acttgtgatt aaagggtgaat 120
gtgtattaag atgtgagcta tggactgtgc aatcacacaa ttgtaagacc atttaagggc 180

gacgagtatt gtgatgggat ccactgtggg aacccgacag ttaaaatgat tttgaaaaca 240
attgagtagt tgtgtgtatt gcatgggtta taggtaaagt gtatgtgatt catgaagtgt 300
gtttagcact tgatatgaca ataattgtat tgtgagctat gaatcataca ataacctgac 360
cagtgttgat g 371

<210> 27405
<211> 457
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27405

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tgggcacact tgtatctatc ttggctctaa gagagctaaa tgcaaacatc atattataag 120
ccatgatact atgttggtaa tttatgcttt cgcgtgattc ctaatcacat aatagttggt 180
gcaaaagcat tggaggattc ttgagaaaag gaagttgtac ccttcccatg atgcaacana 240
tactatattt ggcattagcg tgatttctat tttttcttgt tctttcttca taccacatag 300
cagcttggca atatgcacat gtttcagaag gatctcctag atcaacatat cctacaaaat 360
aaatattatt tagtttgaca ttaacaacat attgttgaag ctaanacctc tgcattgtga 420
gactaanaca tgtgctaatag tcatgagcag attcatg 457

<210> 27406
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27406

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gactgaggat ggttaacttt ggggataaga gccaaagaaag aggcattgct gcctctaggg 120
aaacaaccgt tgacatggaa ctcatccaca aatcttctga actctgggtt tagcacactc 180
cagaattcct taataaaatt gaaattaaaa ccgtccggcc cagggcactt atctccacca 240
caactccaca ctgcttcctt aagctcctgg tctgagaaag gtaaaattaa accctccctc 300
tgcctttgat caagagaagg gaattgaact ccatcaaggg taggcctaga gggattctgc 360

tcagaanatc tgttgagaaa gaagttcaca ggcctatct tcac

404

<210> 27407
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27407

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gcgtaacact catgggctaa ggcgaggaa gactctggaa gaagatgagc tatacagggt 120
ctctaagcgc atcgcttcat cagactaagt gcaccgcttc agttcatact tatcttgatt 180
aagtcttctc ttgattgctg aatcttgagt cttgaatctt gatcttgatt attcttgatt 240
cttgaatctt gaatcttgaa tcttgaaatc aaatttgctc ttgatccttg aagtgttctt 300
gactcaatct tgaactcatt cttgaatgtt atcatctttg ttatcatgaa gtgatcttga 360
cttttgagct ntttgtcatc atctttgtta tcatcaaaac tccttgaatc aatcttgatt 420
catcatgaag cttgcttcta caatct 446

<210> 27408
<211> 399
<212> DNA
<213> Glycine max

<400> 27408

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ggttagaaga gcactaactg aaattaaatt gaatttgaat ttaggaatgt aggcaacatt 120
atgcaagagt aaggtattgg ttaagcaaac tgaactaatg gcaatgatag gtataacatc 180
attgttaggc agagtgcag ttttatcaga aacaagttgg taagaccgaa aatgatgaag 240
ggaacaagaa atatgaatgc tggcaccaga atctaaaagc caacaatcat gaagaaaatt 300
agaagtggat gtagaaagga tcataccact ggcagaagaa caccttgagg gatgaaacat 360
tggagcatga cttctaaaag attatcaatt ggtatattg 399

<210> 27409
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27409

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 agaacataaa tgtatacatg tgtatagcat tgtccgactc agtttggttt acctaattgt 120
 aaatattaaa tttttgctgg ctttatgcta cagatgtggc atacttggtg atacttgaac 180
 tgattgccaa atcatatctt catttggtcat gggttttgat tgtcctgtga aatgaaaaga 240
 attgataatt aaatttggtat acctatttga tcattagett acttgcatat cacattccta 300
 taatttcatt tg 312

<210> 27410
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 27410
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 cctgcacgcc tctattgcat ttaccgccgg tcccccatga ttggcaagtg aatttgtctt 120
 cacattcggg ccatcttctt ggaatgtag ccaccccgcg tcaatcaagc tttgcacttt 180
 atgcttgagg gccacgcact gctcgattga atgtcccga gtacctccgc cgtgatacgt 240
 gcaggctcgc tcgaggttgt accacctcgg gaaaggagac tagtagattc ttccggggat 300
 caccactacc aactgggttg cgattaatga tggcaacaag tccccatatg acatcagaat 360
 cacggcgaac tctggaagct tctttact 388

<210> 27411
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 27411
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 acggaggact aagaacaacc cggttctcat tggagaaccg ggtgtgggaa aaactgcggt 120
 tgtggaaggg ttggcacaga ggatagtaag aggggatgtt ccaagcaacc ttgctgatgt 180
 gaggcttatt gcgttgata tgggggcgtt ggctcggggt gccaaagtata gaggcgagtt 240

tgaggagcgg ttaaaggctg ttttgaagga agtggaggag gctgagggga aggtgatact 300
 cttcattgat gagattcatt tggtccttgg tgctggtaga actgaaggct ccatggatgc 360
 tgctaatacta ttcaaacta tgcttgctcg c 391

<210> 27412
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 27412

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 tattgtattg tcttccatta atggtttgag ccaaacaat gacaatagaa ttgctaatat 180
 tgggtgcagggt gcacccatat acttaccgaa atgagttccc atttttgcat ttcaacttca 240
 gtcaagatcc gtatatggaa tatgatttct ggatcaacaa gataggcggt gatgggtctct 300
 ttacagactt cactggtagt cttcatcggt atcaggaatg gacctctaac cgtaaagatg 360
 atgatgatga caagactgaa tccaatctat tacataaaat tgctttgtta gtctcctctt 420
 atgaatgatc 430

<210> 27413
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27413

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 ttcttaattt taggatataa aaagtaatag ggttattcta tttactgatt attagtgtct 180
 tcagttaatg acatttccaa taaaaacaaa ttatgtgcag acttttgagg ttagtggaaa 240
 tctgacatcc aagccctcta gcaatcctca ataaatagct tgtactgata ctaattacac 300
 aaaagtggaa ttagtggcaa attcagagag tctaaagact aatgtacaac aagttgttcc 360
 tgacattgat gcaatccaaa ataccgatat tcaaaatcca t 401

<210> 27414

<211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27414

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tgtaacaaga aaactgggat gttatggatc atgacataac gttttccata aattgagtga  180
gagtgagaga gaaaatgaaa aagataaaac tgatattatt gcttagaaaag aaaaaaaccc  240
atagagttag atacaacaga ggtatttaaa gagttttgac ttgagaaact aaccacaact  300
aactctaact acctctaact aacttctaac agaatgtaaa ctaactctaa ctacctctaa  360
ctaacttcta acaaaatgta actacttggg cgcaatttag tgaaaactat cagcccttac  420
aacatatata ctgttgtcta atatgaaac                                     449
  
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<210> 27415
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27415

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atgctactct taaaacaaaa atggcatata aactcctcca ataaacacaa acatcaatgt  120
aaatttagag caaactcatg cacatacttc cttatgaaca ttcactcgca caagatattc  180
ttctaactaa aaaaatgcac ccatgcacaa tcaaggcacc ttcgttacct agaccactta  240
tatgcacttc caaggtgtat ttgctaccta catcacatgc atttcctttg ctaaactctac  300
atacatgcat actcaaggca ctttggctac caaacattgc atacgtgcac attcaggtat  360
ttctaatacc tatacatata caaactccgt gatgaatctt                                     400
  
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<210> 27416
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 27416

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 ggaagagttt gatacaattt gcacatat tgtacacaaa agttagtcgt attcaccgac 180
 taacaactcc cccaaattta cggttttgct tgtcctcaag caaaaagaga acaattcact 240
 tgtcctcaag tgacaatgat atgcaatgac tatgtacaaa ggtgtatgca acaaaagtta 300
 ctgattgcat gataagagaa tgaagcatta ggtactcatc acttgtcttt cacaaggat 360
 gcagttatcc agagaataga ataaaatgca acctatacaa ttagatgtga gtagacataa 420
 gacagatatc a 431

<210> 27417
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 27417
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 aagacgacc tttttacctt taccaatatt gctcaagcaa cagaaccact gccaacacct 120
 ccttcctcctt aaacctcaga accctcctct cttccctttc atctcacgcc accggcgaca 180
 cccaattcta caacacaaca ttcaccggaa ccaaccctc cgacacaatc tacgccatgt 240
 tcatgtgtag gggcgacgtc ccttctcagc tttgtcaagc atgcgtcata aacgccactc 300
 aaagactctc ctgagaatgc tccttgtcca aagaatcggg gttttggtac gacgagtga 360
 tggtttggtg ttccaccaac ccgatcttca ccaccgtggc cacaac 406

<210> 27418
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27418

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 atcaatatgc ttgcttcttc catgtagaat tggatttctt gacaatttaa tggttgaact 180
 atagtcatag aaaattgtag tagctttaat ttgcttgaac tacaactcct caagaatttt 240

tctcaaccat atttggttg gcaaggtgac aattggttgc tttttagatg accacaaaac 300
gacacctgtt ccaagcataa agacagaacc aaaagtgtc tttctatcat ctagatcacc 360
tacataatcg ttgtcagttc cccaaggttt catgttcctt gaaaatagtg aagaattctc 420
ttggcagcca acaaatgcaa ct 442

<210> 27419
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27419

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ctaaatacac ccccttgctc tttnttggtg attctttttc cgtaacgtta cgaaatttta 180
ggaatttcat aacgatgctt gttttctttc cgtaatgtca caaaacctta tggattatgt 240
aatcatccct tgtttgcctt ccggaacgtt acggaacttt acggattgag cactaacagt 300
tccttttaat ttccggcatg tcacgaaact tcacggattg tgctacaatg ctttcttttg 360
acttccggca tgttacggaa cttcacaat t 391

<210> 27420
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27420

ntactgaatt ntctagacat ctggaagaaa gtttaggaatt ttatacaagt gatttggata 60
aaaggaaaaa tacgaataat cacacaagtt ggcaggaaaa tcagtatcca ggaaaaaaa 120
tgaaagggaa gtgtgcttgt tgttttggtt canaatttat tctataattg gaaatttcaa 180
ttcaaaatta gtgtgaagac aagtgccaaa gctagagttt tgttgagtcc ttttttcagt 240
ttttttttac tctactctag agccattcta agtttctctt tgagtcctag cttgcttcta 300
tgtcctttta attgctttta ttgttgaata atccttgaaa aattgtcttg ttaaaactcc 360
attggtttag ctttcatttc attttttttg gtctttg 397

<210> 27421
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27421

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 agtacgtgag ctcagttgga ggtgggcaac aggggatggg gggtttatgc gcgcattgtg 120
 gatgtggaaa aacttgttgt gcaccatcgc ccgaccgcca cctagtagca catgtgatgg 180
 gtaccccata atcctacaag cttgagatga ggaagtgttg aaggggtgaaa cttcctgctt 240
 ttattgttga ccacagagtg gtacctggag atatgtcgcg gtggtcagga gaccttgngg 300
 acgtcaggtg ggggtgctatt gcccataacc aagcttgacc aatcccgacc caaccggggc 360
 atagtcggtc agtgagaacc tgtgatgtac ctaagc 396

<210> 27422
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27422

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 gtccatgctt gggggctcga ccgactcgtc cnccttctat ttgtcatgct acatgacact 120
 acgagacaca catcaaccct ccatgtcagc cttgatgcaa gagcatgaac gcctagccca 180
 tagcagcccg actccccaac taacagggtta tctctaacct cttattatgt gaacataatg 240
 gcatcccttt atctctttat ggggtattcaa ttgtctataa ggctgttagt cgatgaatat 300
 gactaacttt tgtgtataaa acctgtgtaa attgtatcaa actcctccaa tttatgggct 360
 atttgtagtg ttggaattac tttgtgttaa agataggtaa taaatactta gtactcgcat 420
 tntgtgtgtt aataatcatt c 441

<210> 27423
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 27423

agcttggtttt tgggcaatag caccacacct gacatcccca aggtctcctg acccccgcgga 60
catatctcca ggtaccactc tgtggtcaac gaataaaagt aggaagtctc acccttccac 120
acttctcat ttcaagcttg taggattatg gggtagccat cacatgtggt actaggtggc 180
catcgggcca tgggtcaaaa caattctcca catccacaaa tcacgtataa cccaccatcc 240
cctgttgccc acctcaactt agctcacgta ctcccacgta gcccttatcc tcgttcctct 300
caacgccggg tccccatcaa tcctccaag ctccaaaac atccaagaaa acagggcaga 360
ggcagaaaac tctgtccaat acacatacca acatcaca 398

<210> 27424

<211> 440

<212> DNA

<213> Glycine max

<400> 27424

tccccaacat ccaggtaatt caaaatccat atcatcacia actatttttc caagcaaat 60
agggcatagg cagagaactc tgcccaaac tcaaaccaaa atcacagctt tttctcactt 120
aaagaccca gtaacatttc ctccgttcca attcggtaac cggtggatca actcgaacat 180
tttactggaa gtctctagta cataagtcta cattttgacc gttgggatct gccagaaaac 240
atcaagaact cattctgcac tactctttcc acaaccagca aaacatagca tttttctgca 300
cttatgcaaa attctgctgc acaatttcac agcaaaattc tgcataaagt gcagatttcg 360
aaaaccacac ttctctcat ccagtcttgc ccatatcaaa tcctacaagt ctcaaacat 420
gtatcaatca tgtctaaacc 440

<210> 27425

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27425

cccgcgaaca ccccgtaata aactacccc tagcattcat caacngttaa caaacttcnn 60
nnnnnaaga ggnnnatgag catgcaatcc cggcgaanch agctcagnac ccggcgatcc 120

tcaagagtct acctgcgggc aagcaaactt tataatttga atgaaaaacg ancaccaacc 180
gcgggaaacc aactaccaa cactctctaa ccacaacaca gcgcacagtg cgaattcaac 240
acatacacc tcgtgcaaaa ccccccggc caacaggaaa caaatacaca cgcaggataa 300
cccaaaccac acagcaaata cccggaaaa caccactcaa cccaaaaatc ctagccagaa 360
ccatcgcgac tacaacggga atcccctacc tattaataaaa caccacaccg atgacacgaa 420
aagcagcatc gacacacaca ccacaacata cccgaccacg gcagcgagaa acaagcccta 480
acaacacaca aaccagcagc cataaccaa acaaaagcca gaacccaaac cacacacaaa 540
caccccc 547

<210> 27426
<211> 368
<212> DNA
<213> Glycine max

<400> 27426
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gattttattc tgtgaagatc tgcagagact agagcttgaa gaggaacca tcctgagagc 120
ttgacatgag tttgtgagt attgtgaggt cttacaggtg gaggagacat cccaccact 180
tgtatttctg caatctttca tctttctctt ctctttgttg taaaggaagt ttcttagtta 240
tggaagctt aatcctctgt tggatctttc ttgtaggtac ttgatgtgaa tatcttttta 300
tctatctaac gatgttctgc gtgttctcta tgctatcggc atatcattct agtatgcttc 360
taccttga 368

<210> 27427
<211> 287
<212> DNA
<213> Glycine max

<400> 27427
catccttgca cacatctctt aaaaaataaa ctccacatca atatgcttgc ttcttccatg 60
gagaatcgga tctcttgaca atctaattggc tgaactatat tcatagaaaa ttgtagtagc 120
tttaatttgc ttgaactaca actcctcatg aatttttctc aaccatattt ggcttggcaa 180
ggtgactatt ggttgctttc tagatgacca caaaacgaca cctgttccaa gcattaagac 240

agaaccaata gtgctctttc tatcatctag accacctaca taatcgt

287

<210> 27428

<211> 564

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27428

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gcaccgggag accctcaaga ggacaccgc acgcacgcac tcttgtctaa gcaacatatac 180
acacagagcc gggacactaa gaaccccgac cgccgacgac atagatacca aataccacac 240
acgcgaaaaa acagactaaa agcacgatgc actcacacta tacacaacta ccacacgttc 300
aagactacga ttgagagaag gagtaccaca gccacagtg caacataagg agaactaaga 360
gcgaaggcgc caaacaatc tccaccgaca caagcgacga aaaacgaaac gtacgcagcc 420
accaccgctg aagaaactca cgtacaacac gaagaccata acacgccccaa acataagccg 480
gtaccacaaa tccaccgacg aaacagacca ccggaaacaa ggacaacaga aaacgcgcc 540
gacacaaaca acaggaaacg ctac 564

<210> 27429

<211> 388

<212> DNA

<213> Glycine max

<400> 27429

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atagctcaaa ggtcaatcaa agaattgagtt caagatgttc aagatagaat ctagaacact 120
tcacgattca agaggaaagt tgaagaacac ttcacgattc aagaggatag ttgatttcaa 180
gaatcaagat tcaaggatca agcttccaag aatcatgatc aagattcaaa cctctagatt 240
caagaatcaa gagaagactt agtcaagatt agcatgataa ggctttttca catactgagt 300
agcacatgaa tttttctcat aacatgttta ccacagagta tttactctct ggtgatcgat 360
taccatattg atgtactcga ttaccagt 388

<210> 27430
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 27430

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ccaagccaat cataatgcta gacaaaatat agatgttatt ataggtaaca atggcggtaa 60
tgacggaccg aggcagaacc gggttaaggg agtaaagctc aatgttcctc cttcaaagg 120
cagaagtgat ccagatgcct acctggactg ggaaattaat attgagcacg tatttgctg 180
caatgactac actgatgtgc ataaagtcaa gctaacagca gctgaattct ccgactatgc 240
ccttgtttgg tggcataaat accatagaga aatgttgaga gaggaacgac cagaggtaga 300
tacatggact gagatgacaa gggatgatgag aaaaaggat gtgccacta gctataacaa 360
aaccatgcga cagaaac 377
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<210> 27431
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 27431

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agctttgttt tggtttaggc atgattgata catgatttgg gacttgtagg aattgatttg 60
ggcaagattg gatgagagga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120
tgtgaaattg tgcagcagaa ttttgcacaa gtgcagagaa aatgcttgtg tgtgggtggc 180
tgtggaaagt ctagtgcaga atgagttctg gatgtttgcc agtagatccc aacgggtccaa 240
atgtaggctt atgcactata gactccact aaaattttgg agtcgatcca acgggttaatg 300
aattggatcg aaggaattgt tactgtggtc tttaagtgag aaaagctgtg attttggttg 360
atgtgttgag 370
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<210> 27432
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27432

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ttgagccaaa atcctgactc accataaacc ttgacccang gtgataatgt caatccttac 60
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cctcggaagc gaaaagaata gaagggaat ttccaatcaa agaataggaa agaaggaaga 120
 tttccaatca aagagaaagc aaaaaaagaa aagaaggaat attccaatc atagagtggg 180
 agaaagcaaa aagaaaagaa agaaaattcc caatcaaaga atgggagaaa gtataaaaagg 240
 aagaagaagg aaagaaagct cctgatcagg gatcgaaaga taacagaaga tatgtgcaga 300
 aaggtctttg gaccggacaa tatctgaata atacagaatt gtcaccaa at gaacaaaaag 360
 aatgaaagga aaccacgacc tataatggtc ttctccatt gattaccaac cataatccc 420
 tgcgctagcg actttttcgc cccgcactaa aca 453

<210> 27433
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 27433

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 cattttcttct gacttactca tgatgatgca tgatgcacag aagatatgat atggactaag 120
 atgcgccatg cattatatca acgcatatat atgcacctca ggggattcga gcatgtatta 180
 tacactacat cttcgaggac tctccgcgct atgagcgcta gtcttaatgt ggtacatgcc 240
 gctccctgta acaccctgga atattaaacc atatatcgac gcatagtcga ctacatcatg 300
 ctaactgact atatggctga cttgaatgat tcgaggtatg acttgagcca ttcgtgtatg 360
 aacttcatga cgtcca 376

<210> 27434
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 27434

aactatactg ctaagagagc ctagctacta cattctatag tagaagggtgc acaccccatg 60
 tcgatgcgtt ggagtattct acagtatgtg tctaacataa gcagcctatc attccaacg 120
 aactcatacc tttagcgttac agatgataag ttgctttcta ccaactctttt ac 172

<210> 27435
 <211> 367
 <212> DNA

<213> Glycine max

<400> 27435

atcttcattc cttgtttctg caaagatgct cacaatatca gacaaatggg gatctccgtc 60
accattgact ggggtctatct gctctatgct atcttattat cattaattta tgggtgagttt 120
gtctaaatct atttcttgaa aaaatatctt ttctatctct tttttttact ttttttttat 180
aaacaaatgt tatatgctta tcaaaaaata ctttttatct taaattctct ttttaaaatt 240
aattttttta agtttaagga aataaccctt taatcaaatt tgtcctttct actttaactt 300
ttcttaagga aaagaaaact ctctgactt tacatacttc ttactctctt tatcccgttg 360
aagtaaa 367

<210> 27436

<211> 471

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27436

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tgtatttcta ttcttttatt aatatatatg tgaggggtag atgggtgtcac aacatacatg 120
ttactttcat gcctaaagtt cacactcccc aggtcttcaa ccaacaaaag tcaataaaag 180
acaacaattt cattcatcac aataaatata tataacgcat cccattcgtc aaaaacatag 240
tttttcctga aaatcgggat gcatatcaag gacagttata tcgcatccca ttagttaaag 300
acataattct ctgaaagaa aaatcaacat gcaacaggga cagacatata tctcatagtg 360
taggttcctt gaccctagct atgggtgtta aatggtaaatt ttataataa actcccttca 420
cctattgtga gttaccccg cgggttcctct gcgcgtcact tgaagattct t 471

<210> 27437

<211> 397

<212> DNA

<213> Glycine max

<400> 27437

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ctacaagtgt ctctcaccta atggaaaact gtatgtttcc aaagatgttg tctttaatga 120

gcttaaatat ccttacaatg atgtttttcc atccttatcc aactctgtca ctccatctaa 180
gagtaacttt ttaccaactg ctcatattcc cattgtttca ctttctccta atgaaccag 240
tcttccctct caaactgctg aaactaatcc tcctttctata aatgctgacc ctctattgc 300
cctaaatgct gaatgcacca attcccaaaa tgtcacacta tcttcttctt ctttgactgc 360
tgaaccaact tctgtaaatg atgaacactc taacact 397

<210> 27438
<211> 428
<212> DNA
<213> Glycine max

<400> 27438

taggactaga ccacctcta tacactatgt tgtaaatgta tttttctata caattcctat 60
tgtcatctct ttgattgaaa caagagtcac ttctaaagag ccaaagctca tgcacagttt 120
ctgtcaaagc taatctaaca agttcagatt tccagccttt acctccatag caatgcataa 180
tccaatttat ctctcattc caaattcttg gagtatgatg gataccaagc caatgaagta 240
ttccaacca gaacttcttc aacataaaaa aatcaaagaa taaatgatca atggtttcaa 300
cctcagcaca gaagacacat tgattattat tcaacatatc aaaccgatgc aatctggcct 360
ttgtggctaa tttcccatga cagatcattc ataatgtata gatgcacgac gtcttgcctc 420
attgtgga 428

<210> 27439
<211> 377
<212> DNA
<213> Glycine max

<400> 27439

ttgtctttta ggattaaagt ctacagattg tcacatgttg atgcaacaat tgtagtcgt 60
ggatatacaa gacatcttgc caaacaaggt caggtagcc ataactcgcc tgtgcttttt 120
cttccatgcc atatgtagca aagtcattga tcctgtcaag tttgatgagc tggaaaatga 180
ggctgcaatt atactgtgcc aatcgaagat gtattttccc cctgctttct ttgacatcat 240
gattcaattg attgtgcac tgtcagagaa attaaatgtc gtggctcttg ttatttgcac 300
tggatgtacc cggttgagcg atacatgaag atcttaaaag ggtatacaaa tgaatttata 360

tcatccataa gcatttta

377

<210> 27440

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27440

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gtggtacctg gagatatgtc gcgggggtca ggagatatgt cgcggggggtg ctattgccca 120
aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagaga gaacttgtga 180
tgtacctaaa caggtgagct cctggcagtc aacatataaa aggaacaaag accacaaagc 240
aaggaggctt gtggtggctg gccagctgtg aaacgtgatt gatatgtgag atatggcctc 300
tggtaatcga ttaccaaggg tgggtaattg attacaaggc ttanaaatga agacaggaga 360
ctaagatggt ctctggtaat cgattaccaa ggggtgtaat cga 403

<210> 27441

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27441

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ctaattgctgt ctaattgtcg atgaggtcat atggaaaagt aagtataaaa tattattaag 120
atgcattatc gataatatat caatatataa ataaaatctt agtagaatga aattgatagt 180
tatacttaac tntgttagac actggatgat ccactactga gtgacctaga catcccataa 240
gattttgatg aaaacaagat ataaacttgt attaaccact ttattgcatg taagtcaaca 300
ggtttgagga gtggaagaac accaggtgag acctatccat tagtggatac tntgtctact 360
agaagcaaga agtactcatc taatccatcc aaacaccaat tggaatggac attctatttg 420
aattatctat ctatgatagc tcatatga 448

<210> 27442

<211> 401

<212> DNA
<213> Glycine max

<400> 27442

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tttgcagcaa aaagcctgta ggattcagcc caaattccgg ggtcatatgc taacttgctc 120
ccatatctaa ttgataatgc aatggtagcc ataacccttg ccaggggttc tcaacctcca 180
tttttccgag gatacgactc aaacacaaca tgtgcatatc atggaggaga tccgggacat 240
tccattgagc actgtatgac cttgaagcgt aagggtgaaaa gtctaattga tgtgggctgg 300
ctgaaatttg acgagaatca cttgtgaatc ctaacattga caagcggcac cacacatgtg 360
ggcaattgaa ggttggttgg tgatgactct aatgactcat t 401

<210> 27443
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27443

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tttccttggt ttgaagctca ctacaagcct taagtataaa accatgatat taccatatcc 120
ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgaggggt ttttgtttca 180
ttggacaact tgttttgttg actatgcttc atgatgtatt ttgggccata cttgatgtac 240
attgtatatt ggtaaagtgt tggacatgct gaatgaaatg ttgtttctca aaggcnttac 300
antaaaataa attacatata ataaaattcg aataaaaaat aaaagcaata aagttgagtg 360
aataagatct taaatggcac aagattgatg aaactctggg ttctgctctt catgtttaaa 420
ttttatcttt acttctttta tatttc 446

<210> 27444
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27444

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aaaaaaataa cagaataacc ttccatatgg atttaggtca cagcccaata attcaccacc 120
 ttgaactaac atccatatag gacacaaact gtcctctcca agcacacatg aacttaaccc 180
 caacaatcaa cattgagcaa gcttaagcgg tgatcaaact tgctctttgg aacaagcttt 240
 atgaacatat cagcaggatt gtgtagagtg ctaatcttat gaactttgat tcttctttct 300
 aaccgaatga agtgatatct aacatctata tgcttggttc tatcatgatg aacttgatcc 360
 ttggccaagc atatagcact aaggctgtca cagt 394

<210> 27445
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27445

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 atgaaccaca ttatntcacc tgtttaagaa attccaacaa ggaacgactt ctgaacattc 120
 aaaagcttca aggatagcag atgagtcata ttacagccag aggttctctcc accctttaac 180
 atgtgcaaac tcaatggcag taacagctgc aagaagctcg gccagcaaag aggaggaaat 240
 gccaagagga actacgaatc cacaataaaa acctccattt gagttttgaa atatgcctcc 300
 attagaagca aggcctagat tctctttga agcctcgta aagttacatt ntatcttaga 360
 cagatgtggt tgcaactaga taaccaaatt aaaatatggt tgtgattcct aataaata 418

<210> 27446
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27446

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 tatgttttga tacttgaatc tgtctttact gattgattta acttttctat ccattctcaa 120
 caaattatta caagtttaaa gacaaacctt ttattatta ttattagtgt taagtttaaa 180
 gacataaatt ttgaccttg gacgcgagat agtgcagtgt tctttctcct gcaataacta 240
 aaggaagtag ggaatcgttg tcgttcagaa atagaaaagg gaaaaatgat tgatgatgta 300

tgaatTTTtat atcctacaaa ngTatattaa cggtatgttt ggaaaattat aataatggTg 360
catgtTTtaaa cgacatacan aatcattatt gggaat 396

<210> 27447
<211> 255
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27447

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ggcttggccc atntagtctg cggacttcac gagcttaatt cgcaaaggcc acaaacttat 120
ctgtatccgc tttagttgaa ggtaagccaa agagaccaga ccattcttcc attcccatTA 180
gctaacgcaa acctaatttg gtggagTTTtc atTTTtcttc tcctttgaga acacatagtc 240
atcatcggcc ctctt 255

<210> 27448
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27448

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gatatcttaa gaagggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
tctatttctc tttttactca agttatgaat tcccttaaag acaatcttct taaatattaa 180
ttcaaacgaa gcaacttgaa tgtgaatata aagcaataat aaataaaaaga gattaagggg 240
agagaaaatg caaactcagt tttatactgg ttcgccaca cccttgTgcc tacgtccagt 300
cctcaagcaa cccgcttgag agttccacta acttgtaaTt tccttttaca agttctaaac 360
acacaatgac aatccttctt ttgtgtttag agatccttta caaca 405

<210> 27449
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 27449

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cgctaagctc aaattcactt actcatgcta agcgcgagaa tgacgctaag cgtgacgtcg 120
agatcaggaa gtccttttta agcctgattt gcacaaaatt aaagaaagaa gagagaactg 180
ttcactactc agaggcctga agagtgtgaa tntcagagac catagagtag agcaagaggc 240
caagttttca tcttttaggg agattagtga atttttgagt gtttgtgaga ttcttagagg 300
tggaggagac atccccactc ctttgtaagc aagcaataac tcttgattcc tcttcttcag 360
tgtaaaagga gcttccttgc catgaaaggc taaaaccctc agttgtggat tcttatggat 420
tagtggatgt aaactctttc tcatatcta 449

<210> 27450

<211> 400

<212> DNA

<213> Glycine max

<400> 27450

agtttatatc aatttggtgc aaaattacca acaacctcct tcgaacgaaa attcacaaca 60
tcctccttcg atgtttcctt tgttgccact accacctcct tcaatgagcg aaaatttcta 120
aattcctcct catttcattc cctatttgcc actcctcca ccaccagtaa cttataatca 180
atcccccttct accgaaaatt ctcaaagatc tcaaactttt cttcaatgtc acaaacacc 240
tctatcgcat ttcataagcc tccaatagt tatattcgtg cacaaactcc ttcaaagag 300
gaagttgata ttacaataga ggaaggatga gggagttcta caaagaagaa gaagggataa 360
cgattatgct tttcgattga agaggataaa cttgtcatta 400

<210> 27451

<211> 442

<212> DNA

<213> Glycine max

<400> 27451

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tacgttgttt tatgtgatta atgactattg ttgtgcatat agttaatgtt tatcatgagt 180

gaaccttaga ttctctgtttg agattcaata cagtgattct tgtggatagt tcgcattaat 240
cattgtattg aagcttgata ttgttcgttt ggacagttta gggagactca tatttttatg 300
gtagattcat gcgtaaaggt taagattact ttggtaaatt tgatgacagt tctgtacaat 360
taatgcatat ctagtgttct tctgagtgca tacttgctta ttgcggaaat aatctcaccg 420
atttcatgtc gagaacttgg ag 442

<210> 27452
<211> 394
<212> DNA
<213> Glycine max

<400> 27452

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ctatacgaga catctttcca aacaaagtcg gggcagccat cgctacccta tgtgacttct 120
ttcatgcgat atgtaccata gtcctggatc ctgtcaagct cgatgagcta taaaatgagg 180
ccgcaataat acagtgctag taggagacgt attgtccccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatcta gtcagagaaa tcaaagatg tggacctgta catctgctgc 300
ggatgtaccc gtgagaacga tacatgaaga tcttagaagg atatacacag aatctatatc 360
gttcagaagg cattaatgat gagaggtaca ttgc 394

<210> 27453
<211> 432
<212> DNA
<213> Glycine max

<400> 27453

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acaaatcaca cataaatcca ccatccccag ggggccacct tcaactgagc tcacgtactc 120
ccacgtagcc cttatcctca ttctctcaa catgcgggtc catatcaatc cctccaagct 180
tccacaacat ccacgcaaat tgaacatccg aacatcatga actatcaata ccaagaaaaa 240
acaaggtaga ggcagataac tctgccaca agacacaaac caataccaca acttttctta 300
ctgatatacc cgacgaacat tctctatgtt tcaattcggt caccgttgga tcgactcgaa 360
tattctactg caggtaccta gtacatacgt gtacattatt accgttgaga tctgctagaa 420

aacgtccaga ac

432

<210> 27454
<211> 395
<212> DNA
<213> Glycine max

<400> 27454

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gcacaaggca agataaaatg tcaaatgaag aattgaagtt gcaggatcca cgatgtcgga 180
tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgtacaatgc aagataaaag 240
acaagtgcag aagtgaagct gcaggatcca cgatgtcgga tacaatgtcc tgacatcctg 300
cccgagaata ctggaattgc tgtacaatgc aagataaaag tcaagtgcag aagtgaagct 360
gcaggatcca cgatgtcgga cacgatgtcc tgaca 395

<210> 27455
<211> 417
<212> DNA
<213> Glycine max

<400> 27455

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tgtcacgggg gtcaggagac cttggggacg tcaggtgggg tgctattgcc caaaaccaag 120
cttgaccaat cccgacccaa cccggggcatc gattacacag tgtaaattgc aggtttccat 180
gttctgaagc tgtgtaactc gagtttggcc tctggtaatc gattaccaat gttgtgtaat 240
cgattaccag agaagaaaac ccttgaggca taccttttaa ctacatgtag cggttatggg 300
actcattgtg ttgtacacgt agttagattt ctcatgaaag agtctacccc tttttctctt 360
atctcttgta gatcgcgatg gcagcgcaat taatccatga ttgagtggag atggagt 417

<210> 27456
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27456

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 aatttggttac atgaaattct aaaaaaataa ttoggcaaaa aaaccgatta aactataggg 180
 tttagtgttt aattatgtat acattccttt tgagttgtca cgtgcttcgt gcttaaacad 240
 tttctatgat aaacaataat tgacaagtca tcaatatagc ctgtttttctc ggtcattcgt 300
 acactntccc taagattatc attntgttcg tggaatttaa taccaaataa ttgtttgtca 360
 ttatattctt aaggaattta cgtccctctt atntgtacta ttgccttaca actagcatgt 420
 agagaaagtg ctcaagca 438

<210> 27457
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27457

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 accttcttta taccaacagt aggttgggca tctcctaagt ttgtaatttt caagcccttt 120
 gaactgcatg agcaaaccac aaaaaattgt ttatataact ataaaaatta gttgtatgta 180
 aaatttggca atggaccaac atttacctga taaattcata caaattgtgg tactcatttc 240
 tctgaatatt acgaaagaga tggttctgtt cagatttttag tctgaagaga aggtcaaaat 300
 aatgcatatt ggaaccacca ccagcatgcc actcaaattc cacatagtca atctgataag 360
 aaaggaaaaa aaacaattaa gatctccacg gtgtaaatat c 401

<210> 27458
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27458

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 ggcaatgggt tatcaaaaga ttatagagct aaaaaagggt ttaagtttaa acctctgtcc 120
 ttccttacta aactctccat gggttttaat tntatctttt ttaatacat aggtagaagc 180

tcttagatTT atgttttgtt aagctctctg gttgctttgt caagttttaa gaaaagcatt 240
 ttgcttcttc agattctttt tttttttttt gcttcttcag attcttttaa attttaagct 300
 gtaaggaaat gatttggtga cagtacgagt tttttttttt tgcttgatca ggttctgagg 360
 gtaatttc 368

<210> 27459
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27459

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 aacccggaat gggtttaggc aaagacaacg gcggcataac tagcttgata aatgccaag 120
 gaaatcgtgg gaagtatggt ttaggctata aaccactca ggcagatata aagagaagca 180
 tcgcgggaag aaagagtggg ggtcaaagct cgcagttgag acaagaaagt gaaggaagtc 240
 cgccctgcca cataagtaga agctttataa gcgcgggtct gggagacgaa ggtcaagtgg 300
 tcgcgatata cgaagatgat gttccgagta cattggattt agtacgacca tgccctctg 360
 atttccagct angaaattgg ctagtggagg aacgccctg 399

<210> 27460
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27460

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 atagcgctc ctctcacctc ctttctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacccattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
 gcttccatca agtggatca gagcacaaga gttcaagta ggtgctcctt aaacctccat 240
 taattntttt ctttacctc tcttccattg ttgttcttc atttatctcc atgtatctcc 300
 tcacatgtct tgttctaaat gttgctaaca tgattcttta gagtttccac cgattaaact 360
 tgctatagaa gttagaaatt gatttctatg gttcanaatt cttgttcttg ttctttgaac 420

catgaatgcg ttgagttt

438

<210> 27461
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27461

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tacgtgagct tagtagaaag tgggcaactg gtgatggtgg gttcatgttt gatttgtgga 120
tgtgggagag ttgatttgca ccatcgcccg atcgccacct agtaccacat atgacgggta 180
ccccataatc ctactagctt gaagtgagaa agcgtggaag agtcagtctt cctactttta 240
tttgttgacc acagagtggg acttgagat atgtcgcggn gctcatgaga ccttgnggac 300
gccaggtggg gtgctattgc ccaaaaccaa gcttgatcaa tcccgacca acccgggcat 360
agtcagtcag tgagaacctg tgatgtacct aaata 395

<210> 27462
<211> 250
<212> DNA
<213> Glycine max

<400> 27462

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ctaggaatga acaaactaaa tgactgagtg taactgaaat tgttggcaac caaaagtcac 120
ccccaacagc cacaagtcac cccatttgct tcccaaaagg ctgatgcctg gttgcaattg 180
gcccttataa actagactaa accctttagt tgataaccaa aacattttta gtcaccaact 240
ttcaaggatt 250

<210> 27463
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27463

agcttgtctc atagaggtcc aggaaggaca aggcagccga aggaactagt tccgctccgg 60

agtatgatag tcaccgcttt aggagtgtg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcgtt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgatttcc 180
 aggaggaaat agggcgccgg cgggtggcat cactggttac tcccatggcc aagtttgatc 240
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgagatcctg ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccaactcc 360
 tangatatcc gttggtgttg gaagagggcc aggaatgtga gta 403

<210> 27464
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27464

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 taccaccac ccagttatcc acaaaggcca tccctaaatc aaccacatag tctgtctacc 120
 gcactttcaa tgacgaagac cacctttagc acaaacctn anaaaaaaat attaataaaa 180
 ataaaaaaat cccccaccaa aagggtttt gcagcaaaaa gccttggtggg tttaacccaa 240
 attccgttgg catatctaaa cttgatccca tatctacttg at 282

<210> 27465
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27465

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 aatcaaaaga tgtaactctt caaatggttt ttgacttttt caaattagtt tttaagtttt 120
 tctaaaagtc ataactcttt taatggttgg cttgaccaga catgaagagt ctataaaagc 180
 aaggctttgt ttgcatcttc aagtatcttg aacacttatt caatcaatca tttaacaagcc 240
 ttaaattctt ttgaacttct tcttcttctt tgtacaaaa gctttctgaa gttttctggt 300
 tttccaaacc ttgaaaactt gtgctattca tcttttcatt ctcttctccc ttgcaaaan 360
 agaattcgcc aaggactaac cacctgaatt ctttntgtgt ctc 403

<210> 27466
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27466

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 taatgccatt aacctaggga attaaaaaaa acttaatggc tgagtgtaat tgaaattgtg 120
 gcaacaaaaa gtcaccccca acagccaaca agtcagccac catttggtcc tccaaaaggg 180
 ctgacccctan gttgcccatt gggcccttat tataacctga actaaacctt acttaaacc 240
 ttttaattga ttaacccaaa acatattttt ggtccagcaa ctttaciaaag atggggccatt 300
 atttagacca actaaacact ctaaattgag acaagtgg 339

<210> 27467
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27467

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 gaccttgaaa ggcttaggac cccaatcaac acttttggat cttagaagga tagggcgatg 180
 atctgaaaaa tctctgtcta gtacaaactg tgttgtgtca ggccactgaa atgacccctt 240
 gctaccctgc aatgagacac acacagatac acaaacacac acacatagag acaaacacac 300
 gcagacacaa acacaaacac aaacacacac acacacacac ataaagatac acacacacac 360
 acacacacac aaagtcatga attcccatgg gtatggagta tc 402

<210> 27468
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27468

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agattttctt ggaaggaatg tatcagcagt tctcatctt ttgcgcatgc ccncatcttc 360
caataatata tctttagatg gttcttgggc aagtagtccc cttgtacttg tcaaagtcca 420
gcaccttgaa cttgggaggg gtgatgata 449

<210> 27469
<211> 407
<212> DNA
<213> Glycine max

<400> 27469
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tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120
ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc aaccaacaa 180
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agcacaacc aagaaacacc aaccaagaag tgaattttgc agcgagaaag cctgtagaat 360
tcacccaat tccagtgtcc tatgctaact tgctccata tctactt 407

<210> 27470
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27470

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tcttcacgt tcttcaatct tcaacgggta agtacctcaa accaagcttt ntaattcatt 120
ctatgtaccc gtggtagtcc accttttgtt ntatgtattt ttattctcat tgcatttac 180
tttttatacc cnccttttgac gtgcttaagc catttattta agtcatttct cgcttaatct 240

naaaataaaa taaatttcca ccgatcgttt gaatagtaat atccgttag

289

<210> 27471

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27471

agcttggttca taaacgtgca tttatgtgca atacacaatt cccggtacac cacaacaaaa 60

tggtgtatca gaaaggcgta atagaacttt aatggatatg tttaggagta tgtagtcaa 120

ttagacttta cccgtatctt tgtggatgta tgccttgaaa actgccatgt atttgttgaa 180

cagggttcct agtaaggcag ttccaaagac atcttttgaa ctgtggacaa ataggacacc 240

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agataaataa ttggatgcaa gaacaatcaa tgaatatctt attggttatc cagaatagtc 360

aaaggggtat antgtttatt ggtctaata tagtatgaga attg 404

<210> 27472

<211> 421

<212> DNA

<213> Glycine max

<400> 27472

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tgactttttg aaagtagttg ttaacttgtg ctagaagtca tacctctttt aatggttgtc 180

ttgaccagac atgaagagtc tataaaagca acgctacgtt ttgcatttca agtatcttga 240

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gtacccaaaag ctttctgaag ttttctggat ttccaaacct tgaaaacgtg agctattcat 360

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t 421

<210> 27473

<211> 386

<212> DNA

<213> Glycine max

<400> 27473

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gaccttcaat attttgatac ttaaaagata atagattcga gtataatttt atcttatatg 300
actaataatt tttaatcaag agtcatctct tttgtgactt aaaataaata taacaataag 360
agagatgact ctacgaaata tgaata 386

<210> 27474

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27474

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catgctgtga taaatgcaa aaaaaaact agggcaaattg aagaggggtga aaatgagggg 120
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cccaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
cataaccc 428

<210> 27475

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27475

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catgatttan gacttgtagg atccaatttg agaaaaattg gaggtgggta agatggattt 360
cgaaatctgc caaattgtgc 380

<210> 27476
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27476

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<210> 27477
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27477

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actatagagg ataaagccac gacaaccgcc tccagtacag ctagggaagc gaagccggtg 360

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404

<210> 27478
<211> 377
<212> DNA
<213> Glycine max

<400> 27478

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<210> 27479
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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atgagaaata acttttcaaa aaatatatga tgtacaacta acctcgtaga atattgtcca 180
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tacggttgtg ggacaacaaa ggaacaataa ctatgaaaaa tagattcttg taatttgttt 300
ggcttgagaa aaatatgaca tattattaag gtttaaggaaa ctccctatta aagtttataa 360
aattcagagg tgcgtaagta cttntttaaa atntaaaaat 400

<210> 27480
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27480

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attctttgat cttccatact ggtctgatct atatgtgcgc cactgtctag atgttatgca 300
tgtggagaaa aatgtgtgtg aatatttaat tggactctt cttaacatta aaaggaagac 360
aaaagatggg ttgaaatgtc gtcaagactt gggtgacatg ggaatacgag agcagtnnga 420
tcccatatca caaagtctgc gaacatattt acccctat 458

```

<210> 27481
 <211> 399
 <212> DNA
 <213> Glycine max

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<400> 27481
tagctttata agcgcgggtc tgggagacaa aggtcaagtg gtcgcaatat gcgaagatga 60
tggtccgagt acattggatt tggtagacc atgccctcct gatttccagc tgggaaattg 120
gcgagtggag gaacgccccg gcatttatgc aacgagcata atgtaaacct ttacggtttt 180
aaaagctcta tagttgggca taggcttttag agtttttctt tttgttaagg ctttgtgtct 240
tttgtttttg aatttataat acaaggatct ttcttcatct gttcctacgt ctctacccat 300
tctcattcat ttgcatgttc acttcttttt ctgaaacggc agatccgatg acgagtcctc 360
cgaagggtact aatacctggg accgcctat cgacttcga 399

```

<210> 27482
 <211> 235
 <212> DNA
 <213> Glycine max

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<400> 27482
tgggtctcac cgactaactg atcggtccct tctttcttgt tcggagaaac actacttatg 60
atgcctgcta cagtgggtgcc attctcttct ggaattaaat taagtagatg catgatgtta 120
attattaatg gcttaaggta tataaagggt atgtaatacg gctgcaattc tggatatagg 180

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accattaag ggatatgaat gtgttcttaa aatttgggtg ttgaacggtt ttaaa 235

<210> 27483
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27483

tttcttatta acaacatata attcgacaaa attcaattct tgattttgga caattgtttc 60
 cagcacgcct ctgagatcat cgttgtcgtg tagttgtgtt gaaataaaac gtgttttagcc 120
 atgatgaaat gaaataggga catgatataa caactgaatg tctgtttcag ttgctcgagt 180
 agggagacat tgggttaattt tccaaatcaa ttgtgttaac ataataaacc tactcacgta 240
 tagaaatatt gggtttgcac ataagtacgt caatccgtga accgggttgt ttgcaatctg 300
 accatggtgg tgaataacaa ttgatatttt tttaggtgga gccatgggtg gtgtttggng 360
 gatataagcg gganaactat gagag 385

<210> 27484
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 27484

agcttggtgg tagtgaccga cactccattg aattggcaaa ggcccgtgac caaagcagga 60
 aacccgagtg ccctgttggga cttcttcggg tccattgggt gtctaggagg cgtgatccct 120
 gcaaattgat atatacgctc tgagaccaac tgggccacat ggatacttac ctgagttagg 180
 atggtgtaga ctagctggca ctttggccgg gggaggtcga aattatggtc gctggggagg 240
 atgttgctga gtagcaacat catccaaatc tgtgtgaggg tggatcatgct agtgacacatg 300
 atccgcaccc atctccccac cacgctgtgg gcaaagtcct tccccggaac acacatgagc 360
 tggtgatgg cctccttgtc aaaccccg 388

<210> 27485
 <211> 223
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27485

aatcaaaagt gattcaaaga tggtttgatg ataacattga tgataacaaa agatgataac 60
 aaaaggtgat gacaaaaagc tcanaggtca atcaaaggat gagtccaaaa tgttcaagag 120
 gaattcagga ccaatttcaa gactcaaaag gaaaagttga agaccacttc aggattcagg 180
 aggaggattg atttcaggat tcttgattca aggatcaagc ttc 223

<210> 27486
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27486
 agctttttat tcaatttcga gcgtctcaat atattacggg actcaatcag acatccgagt 60
 aaaaagttat cttcgtttga attagctctg aggttcagaa ttcaatttcg agcgtctaga 120
 tatattacgg gactcaatca gacatccgag caaaaagtta ttgctgtttg aattagctca 180
 gaacttcata attcaatttc gatcgtctca atatatttcg ggactcaatc agacatctga 240
 gtaaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt tcaagcgtct 300
 cgatctatta cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaattcgc 360
 tgagagcttc aacattcaat ttagagcgtc tcgatatatt a 401

<210> 27487
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 27487
 tatatatgta ggactgatga tcgctgtgat tgacatatc ctcgggataa aggtagtgtt 60
 gccatgtttt caaagcctgt actaaggcat acaactcctt atcataagtt gaatagttaa 120
 gggtaggacc acttaacttt tcaactaaaat aagcaattgg atggccttct tgcacaaaca 180
 cagccccaat cccaacattg gaagcatcac actcaatttc aaaagatttt tgaaagtttg 240
 gcaacacaag tatggggcat taagtaacct tt 272

<210> 27488
 <211> 405

<212> DNA
<213> Glycine max

<400> 27488

agctttatatt tatatatact atttacatca tagaggatga tatggccatc gatatctgtg 60
taattttttga gtaaaaaaca ttacatagat aacgtatata aattatttgt ttatatattta 120
aagtcttttaa atatctatat aattatgcaa agtcactatt tgtatagata ttttttttgc 180
taacaaaaaac aggtagactt gttgccgtcc tagctagatg aaactcataa aacgaccatt 240
ccatgaaaag gcaaaatttc ctaactgaaa ggagcaaaac gatatgaatt acctataccc 300
atggacatta aaggctataa gagatataag tataattatg atatgtaatg atgtgatagg 360
aagaaagaga tctagagaca tatctcatat gttaaataa taagt 405

<210> 27489
<211> 393
<212> DNA
<213> Glycine max

<400> 27489

agcttgttat tgaacaaggg aagctctcga gaaactcaaa tgatcataac ttatcacaca 60
gatgttcgat tcaggcgcga aatattccga gacgctcgaa attgaacaac gaatgttggt 120
gagaaattca aatgggtcaga acttgtcaca cggatgtccg attaaggcgc ataatatatc 180
aagatgctcg aaactgaaca acgaatgctc ttgagaaatt caaatgggtca taacttgtca 240
cacggatgac tgattcaggg gcattatata tggagacgct tgaaattgaa caacgaatgc 300
tctcgagaaa ttcataaggt cataacttgt cacacggagg ttcgattcaa gtgcataata 360
tatcgagacg ctcgaaattg aacaacgaat gct 393

<210> 27490
<211> 210
<212> DNA
<213> Glycine max

<400> 27490

gcgaagaggg tggaattcct agagcaattc ctttatgtta tcaaccataa aaggggaaag 60
ggtattatgg tagccgatgc tctttctcgg cgatcatgcat tacttcctat gctggaacca 120
aaatggatgg gcctggatgg ttggaaaacc tgtgttgaaa tggaggaacc tttgggggaa 180

attttttaaaa atgggggaaaa atttccaaaa

210

<210> 27491

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27491

ttttattata tggattttcca ttccaattat atatatgaac atttctaggc ttcctaagggt 60

tatttatgac aacaaattag tgcattgggtc acaacatata gcagcaattc aaatttgata 120

aagttgtctt caccaattct ttcacgcaca ctacagatctt tcaagaagct agtttgattg 180

taacccaaaag ccacttactg gaggttatcc acttcatgaa aggcctcact gcctttgcat 240

gtcataggac atagagttac aactctcttt aaagctagaa aatgagatac tttcttctac 300

ggttcctgaa ttntcataat ttccaatagg gtttggttcc acgagagtat tagtattccc 360

ataatactgt gttgaaggat tgggtggacaa g 391

<210> 27492

<211> 181

<212> DNA

<213> Glycine max

<400> 27492

caataactcaa acccgacacg agagagctat atagttgtat tcttacactt tgtgtttctg 60

tcacgtagat accgccatac cgggacatat ttgtaggacc aacccttcct cattcacgta 120

cgcataataa ttgcagtcga aatcccatcc aaattagggt aactggagcc tggaaactac 180

a 181

<210> 27493

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27493

agtttatcat tntttctgag tccctcatga caacccaaat tttacttcaa ttggtgttct 60

ttacagaact tgtcttttct gaatacactt aagaaaactc atcagtaggc ataaattcaa 120

aaggcttatg atttgtgtta agaaggtttg tcataattaa aacaacaagg gttttggact 180
gaacaaattg ctcataaaat aagatgtgaa aaacaattat caaagagaca ttagagaaca 240
ttcactagac agtaatagag agcacatatg aactaatcaa actaaatggt acaaatattg 300
aaataataag ggactaaaca ataaatattc aaacttcac tcaccagtta aaattacctc 360
ctacaaaaaa atcnaatttg gtgtttcac gtgca 395

<210> 27494
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27494

gactctagac cctagattga ttggatcctc aaggtttgag aagggaaaat tagaatggga 60
taattgtgga gcaaactctc atctcacaca agtctataac attaattctaa acttgctcaa 120
acaggtttta caacgaaaac tccaccgaat caaaattaga ctctctcaaca cccaatttac 180
cctagaaatg gctcttgccc tcactttggt aattcatttt cctactttgt acagcccaag 240
ctttccaca gtccataatg acanttcaag ctatgattaa cttactttaa cctccaatta 300
ccactaaatc cagaattggc ttttcaaac cctaaagcat cacacttttc cactcatatc 360
actacgttct cactttntaa ccctaggtta attctaccct tcattcttat ca 412

<210> 27495
<211> 393
<212> DNA
<213> Glycine max

<400> 27495

agcttcttct ccatcaccca cagccaccat tagccactac aaaccaccat tgttctccgt 60
tgaaacccca caccgagagg aacccttcaa ccgaagcgga atcttccaac ttggcttgcg 120
gtttcggtag agaacgaaac cctaacctga cctttccttt tccttcgagg taaccatggt 180
tctatgcttg ttccttggtta gtttcagctt gtctttgcat cttttctaac tttggaacca 240
ccattgcatg ttttacgctt cctttgaaaa accctagaga aagagacttt gtaaacgtta 300
tcttttcatg aaatgcatgt tattttcgta acctacactg aaccccggtc acattgttgt 360

ggtcggaatt tccaaatgat gttcctttgt aaa

393

<210> 27496

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27496

nnnnaaaana gectgttttg gttttntgag tngacncant tngcaccaac ctgcgaatgc 60
acataggttag atatatagcg tggttgatcg ctgaatggac ataatccgcg cgatagagggc 120
cgggtacctt gtggatgcaa accgagattg agcatcctga agaaatgcca gccatgagga 180
tagctggaca gtaccatgca ttccattaaa cccagcttaa ggttgaacct ccctattaaa 240
atgatatgac gggaatccct catgaatccg ggggtggtgga tattcgaaaa atgggggtttc 300
taaaaaatct accccgtggc gtcgaacct tcaaatctcg gttattgaac tttaatccgg 360
ggcgggtgctg tgtgtgagct tgatgctgta aacaaggctc cctctggttg cactggtggg 420
aataatacct attggttcga ggcgaccaa tgtttggttg agtctcattc ttgcctgact 480
ggtgtacaac ttcg 494

<210> 27497

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27497

agctttcttg agaaaacttc cttaagaagc ttctttgaga aaacttcctt gagaagatag 60
agcttagcta cacacatccc tctaataact aagctcacct ccttgagaag ctttcttgaa 120
aagattccta aagaagctag agcttagcta cacacacctc tctaatagct aagctcacct 180
ccttgagatg agaagctaga acttagctac acaccccta taatagctaa gctcaccccc 240
atgacaaaat acatgaaaat acaaaaaaag ttcttactac aaagactact caaaatgcct 300
cataatacaa ggctaaaacc ctataccatt agaatggcca aaatacaagg cctanatgaa 360
ggataaaaaa cctattctaa tatttataaa ga 392

<210> 27498

<211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27498

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gg坦nnccg ttttngcnt ntttaatacc agnacccaaa tggtaanccc aaataccaaa 60
ttaatattgt ttctattgta ctaaccatt ttaggtgccca ctgtcgcggc cactgccaaa 120
tggtggttat cctgccaaag gaccactaag tggccggggtt tgggtcaatgg attaccaggc 180
caaacacctc ccttaaggga ataattatta ggtaaggggtt gtttccattc cattggcttt 240
gtaatacctc attgaccaca accagttttt aatgggttct catatggacc agggctatca 300
agggtcttga tgatgctcca cagcctaaat caaaggctcc tgctaggtgg attgtcgcca 360
tggtagctca ttacataaaa cttcaactat atatatttct tatgcgtctg acactagtag 420
ttattaatat ccaatttcat atgtattagt gtatagacan aaagactg 468
  
```

<210> 27499
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27499

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agcttgtatg attatgggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120
ctccaactga gtcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
ccccataaat cctcccaagc tttcccaaca tccaagtaat acaacattca aacagcacia 240
attatcacag ccaagcaaaa cagggcaaaag gtagaaaact ctgccaaaac accaaccaaa 300
atcacagctt ttctactta aagaccccag taacaattcc tttgttccaa ttcgttaacc 360
gttgatcga ctccaaaatt ntactggaag tctctcgtag ttaa 404
  
```

<210> 27500
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27500

gttctagttt ttatcccncc cccctctctc cctcggaag aggactcttc tctctctctc 60
ctctctctct tcaattttcc gttttaagtt taagcctccc tcccccttct ctttaatttc 120
cgtttttttc catttccagt tcagactttt agttttatca ataaaatttc attctctatt 180
tgattaatgg aaggctaagt ccgcagcgtt gttttccctt gaggatcaag cacagtcttc 240
tttgagggtc tattattact gttaaattct gtttatgttt tcctcttcac taattacttt 300
gaanttgttg gctttaattc atgcatgctt agtgcttgat taattggctc tgcgcctaat 360
ttacgttcat gccttatgga tcgttatgag ta 392

<210> 27501
<211> 397
<212> DNA
<213> Glycine max

<400> 27501
tgctttataa tagactttat cttcataata aaaatcacat aagtgttttg agacataaaa 60
cacatgtcat acatatgatt cgttcagata acggtcaatg tatgttgatg ctctcttttg 120
ggtaatacac caacacacaa catacaaaca tgatgatgct aataaaattc ttaacattat 180
ttgacaatta aatatgcacc gattagtagt acatatttcc ttctgggtata taaataaaac 240
taatgatata cacaaatcgc ctacaattat attcattaat tataagaaca actaatcaac 300
ctttggggcg tccataaatg ccttataaca atgaatttca attaccata aaccaataat 360
catataatgt agtgtcgcaa cctacccttc ggcggga 397

<210> 27502
<211> 226
<212> DNA
<213> Glycine max

<400> 27502
atagacccat aaatgcgggg gacaacacca tgtgacatat tgtatgacct tatgctccat 60
aggctctctg actcttatct tatacactaa tgggtgaagt agccaacagt tggtaacata 120
tccttccatc aatatatatg gagggctgca ggacctaagg accgattcgt ccatgcctgg 180
aaatattgga aatccaacca ctttctggta atattggcta gttttt 226

<210> 27503
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27503

tgcttatgcg catgtttcct tacgaacggt cacttgcgga agacatccta ttaaccgaaa 60
 aaatgcaccc atatacaatc aaggcagctt tgttacctag attatttaca cgtacttcca 120
 aggtgtatatt gttacttaca tcacacacat ctcttgggt aaattcacat acatgcatac 180
 tccaagcatt ttgggggtacc aaaaattgca catgtgcaca tcttggtatt tctaatacct 240
 atacatacac aaacttcatg atgaatcttg actatctaca caataaagtg ctacatttca 300
 tgcccttttt caagtttttg ctacctaaag ccgcatgcaa attcaagcat atnttccttt 360
 gctgactaaa attgtattca aattatatat ata 393

<210> 27504
 <211> 153
 <212> DNA
 <213> Glycine max

<400> 27504

acaacacacg agcatggggg attatagaaa tatatgtgta tgcacatca tgttgattag 60
 aaagacccaa cttttctacc tactactgca acttttactt acttggcatt taatagttat 120
 tagcataaag gttgggttaa atttggttgg aat 153

<210> 27505
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 27505

ttttttctac ttatgtggca gggcgggttt ccttcacttt cttgtttcca acgcgagctc 60
 tgaccactgt tcttccttcc cgcgatgctt cttttcatgt ccgcctgagt gggcttatat 120
 cctaaaccat acttcccacg attcccttgg gtttttatca gactagttat gcgcgcattg 180
 tctttgcta aacccatccc gggttcataa ccgttcccca acataactcg ggccatcatt 240
 atcgccgctt cggacagaca aggttgccca aagaaggagt ccacggagga aatgctgacc 300

acctcaaaag actggaaagc ggtttctaac gattcttctg cggcttccac ataaggcatg 360
gaggatgggc agcttaccaa gatatcttcc tcgcctgaca c 401

<210> 27506
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27506

accgacgaaa ggatcaaagt gattcttaat agaggcaaat cagatcatca tactgggatt 60
aatgccaaat aaataggcca atgaaagggg agaatgatgg acaagcccat gctatgattg 120
ccattcctat acagccaagt ttcccaacat accaacaatg tcattactca accaattaac 180
taaccttttt cttaccacc gccccattat cgacaaatgt catccctaaa tcaaccacat 240
agtctgtcta ccacacttcc aatgacaaac atcaccttta gcacaaacca agagcaccaa 300
ccaagaaatg aatnttcgag cgagaaagcc tgtagaaatt accccaattc cagtgtccta 360
tgcttacttg ctcccatatc tac 383

<210> 27507
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27507

agcttatcat ctgggtctgt ttcaagtttt caaatgtgaa atgtgaggag ctgtgttaag 60
gactgcactc taatgcttct gaattctgag taaaggagct aaccttattt ccactccttt 120
tgaacttacc tatgttgtga tttgcattta caatgtatgg ttaggtagta agatcaaact 180
agtagtttta ttattctcag actangaatc tntttttttt tttgtgtgtg tgcgtgtggt 240
tgattttcaa agctttt 256

<210> 27508
<211> 228
<212> DNA
<213> Glycine max

<400> 27508

tgagaaacaa gaacttaatg tatcataatg tgatccgata tgacctctga cctataggat 60
 ctgatttaaa ccgacatcga atatcctcta attatgtgta atcaatacta cccgtttata 120
 ttaacaagca cttattgtgt actctgacac acacttttcg tcccattatc ctctatatat 180
 ctctcatttt acactaatta taggatatta gtgtcaagac aaataaag 228

<210> 27509
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27509

atgtttatgg taaaagcttt ccttgatttg ttcgattgct gcgaaatcca taatggggat 60
 tccggtctaa ttcttgcgaa cctgatcaaa ctgaagaatt gaaaatgaag atgataaaat 120
 ggatcaacat atgaaccccc gcctgggaaa aatgaaaggg ctgaaatgaa aaaacattga 180
 gttttgactt catggatgcg cctctttatc tgagatgaaa catattcatg tgcccttttg 240
 atatcattnt nttttataat tcttttacta aataaatatt ttgccgtgtg aaccttaaaa 300
 atctcttgat cgatgtcca cttcatacaa acatcatttt tattatttat aaattccac 360
 aacg 364

<210> 27510
 <211> 301
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27510

aaatggactt accttgaatt aatcccttg atagcccttt tgagccttgt ttccctttcc 60
 ttgtnttgaa gctcactact agccttaagt gaaaaacat gatattacca tacccttaag 120
 gaaatttgga gctttggaat ttgtttggga ataagtgtgg ggggtttttg tttattggac 180
 aacttgtttt gttggctatg ctttatgatg cattttgggc catacttgat gtacattgta 240
 tattggataa actgtggaca tgctgaatga catagtgttt ctaaagccta taaacaaaaa 300
 a 301

<210> 27511

<211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27511

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cgcggaattgg gcctgtgatg cctttggaat cacggcaatn cagctcgncc ccgggacccct   60
tagagcgacc tgccgcttgc ttctttttat tgtaacaggt gccttcacct tctatgactc   120
gttcgacgct tgacacagag aactcacaca tcggcgtgtg gcccaagcgt gctctgaggc   180
gttctgattc aaattgggtc atgacggctt agctcggaaa caaacctgta ctaattatga   240
gactccttat gctgatagtt gcacttatag atctctttct ttttctctcc tttttctaac   300
atcaccccca tgagtctcct tattgagtgt ggcagtaatt actttttatc catgcccaatt   360
attacgtctt cctattacaa atgatagctg ggacgatcaa attgagactt gttcttctat   420
cctttttctt gcaaccactg aatcatctat atc                                     453
```

<210> 27512
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27512

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atgtcagctn ttctaaaact tcatcaattg ttgaattcat caacctagct ttccagaata   60
gagattgacg ggcttctacg gttacctaga aatggataga aggaagaatt cttggaatat   120
gattagaaca cttatagaag ataacctttt cctttgtgca tatttggtga ttataattat   180
ttgctcccaa tgataaaaaga tgggcttggt aatcacccat cgtggctaata atgggcttta   240
agagactata ttgattgcat ttcatgcaca tcaggatata atatacttgg cagacagaaa   300
gaaacatgat cattgaaaga aatagacaac gggtgtgact tgattgttga ctatgtcaac   360
ttaactatca tgc                                                         373
```

<210> 27513
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 27513

tatatgtcac tcttgacttg gattgctgga atgttgtatt catgtctgat gctattgcat 60
 ttaatgatct aattttgtct aattcaccat tgaaaacaaa ctattcagct tcttatttta 120
 ttcatttcat atgaccatac ttgctttcttc gctttcatca acaaccaatc tatacttagt 180
 aaattactgc agagtggatg tttatttact tagttcaaga ttgcctaact tgagcttata 240
 caacata 247

<210> 27514
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27514

agcttctggt gttcaatttc gagtgtcttg atatattatg cgcttgaatc tgacctccgt 60
 gtgaaaactt atgaccattt gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120
 cgatatatta tacgcctgaa tcggacctcc gagtgaacac ttatgaccat ttgaatttct 180
 cgagagattc cgttgttcaa tttcaagcgt ctcgataact catgcgcctg aatcagaact 240
 ctgtgtgaac acttatgacc attttgaatt ctcgagagct tcnnctgtgc aatttcgagc 300
 gtcttcatat attatg 316

<210> 27515
 <211> 165
 <212> DNA
 <213> Glycine max

<400> 27515

agacgatggg ggggggttga agttgagttt ggggatcacg ttctgcataa agttggatgt 60
 tgctagagct tcggatcttt tgctccttgg atgtgatcct ccagtgatcc atggggatat 120
 ctagccaagc actggtctga ttgatactca tgggggtggga agaata 165

<210> 27516
 <211> 198
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27516

tttgatcaac gactactggc caaccctctc gctattcatg atgcacagag attcatcgac 60
 tcatggaggc ttatatgtgg atactactggg gagttcaatg gaatgactgg actttctatg 120
 ggacgttctt tactttcttt gnetgagcag tcccacttat actcacttca tttatttatt 180
 ggacgcttaa cctgaaac 198

<210> 27517
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27517

agcttggttat agaaccaata acaacttgat gaagttttgt gttttacatg ttcaactctc 60
 ttgagtgaca ttctgtattga ttgttatatt ttgtgttgca tcttactctc tatcttttca 120
 tatgtgcac atgcacatc atgtaggagt tagaagaaaa gctctaacga tagaatatct 180
 cttctatagc taaaactctc tattntaatc gattacaggc tgattgtaat tgattacaca 240
 agctgtttga agcttgtaaa agactgtctc gtatcgattt aatccattac ttacttatag 300
 taatcgatta 310

<210> 27518
 <211> 263
 <212> DNA
 <213> Glycine max
 <400> 27518

tgcttggttg taaactttat gctcgggta acctggcaac ccaactagcc atgaatataa 60
 attcacctgt acacatcatg gttttgctct ctatcgccac caacagacct tgcocttctgt 120
 gcaacaatct gaacaattga acagcctgaa gcttatgctg cataacatct accaatatga 180
 tctctctga atcttaggag ccataatccg ccacaacaga acaaatatga ccttctccgc 240
 aataggtgca atccccggtg gag 263

<210> 27519
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 27519

agcgcgangt gangccacgt tgattacact tgaatnanc acnggcgaat nccagcgcg 60
cacctgcgga tcctctacag tcgacctagc tgctattctt acttgtttta acgaccatgc 120
gagagggaga ccagcatgct gtctatcata gacaagtacc cacatcaatt atgcataccc 180
ccagcccacg atcatataat ctccgatgac tatgcccatt tatacgcgga tccctaggct 240
cgatgagtga cgacctacat tttatgcaca cgagggcact atttaccata tgatctgatg 300
gccctgacct gatgcggggg acaagaactt ctccgagtgt taccgaaggc caatgccata 360
gggtgataact actcagcctc ggaggagatt acgggctcct ggggtgtctgc gctctgatca 420
cttatggtcg cgtcatagaa atcgtaggag cttgttcggt ccatacctga cacatatact 480
ctatatcccg 490

<210> 27520

<211> 221

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27520

agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtaccgataa tgtgtctacc 60
atcacgaata tcgcctccct ttttgcacat gttctgtagt tgcacccat ccggaacct 120
atcagaatag tactgatact gcctaacgaa ggcaaccatt aggtccttnc aagtatggac 180
tccggaaagt tccaagttag tgtaccacgt aacagctacc c 221

<210> 27521

<211> 340

<212> DNA

<213> Glycine max

<400> 27521

agcttctcta aatacttggt ttatcgatta cgaatagaag gtcacgatt aaaactgaga 60
gttgtgcatt gaagatgttt cttacctaaag aaacaatctt cctacttcta catggggatg 120
catgatatac acataggtag atttaaactt aaaaacaaaa atttatacaa ataccaccga 180
ataatgagtt acgcatgtaa aatgacaaaa ctcttcaaag tttgatcttc atgttacttt 240
ccctatctct aacagaattg ggttttgaaa ctttttttagt gggtctttga aaacaaaaga 300

tttctgacta tagtttacia taagtgagtt cagaatgaaa

340

<210> 27522
<211> 484
<212> DNA
<213> Glycine max

<400> 27522

ccgagtgagc actcgacaca ttgtgataca ctggaaccgc gatccttaag tcacctgcga 60
tgcagccatt ttatataatt tgatgagttt ttaacaaacg aaaactgctg taagttgtag 120
tacaatctaa ctaccggaat aaatatggac cccatagaaa atttagctac ttttacctaa 180
atatgcttgt gogaattcga agaagatgtg actgcgacat ccctaaacga tcgaatgcaa 240
tgattatttt ttgctttttc cttgatgtaa cctctatctt atttatggcg tgtctaaatt 300
ccataataaa attcaatgtg ttatttcaac tggcccaaga taatttattt ttaattgttt 360
gaccttcaga ccttacgcat acttagaagg gtccgacttc aattttcttg gaatttctgc 420
cgcttctctt acgcattatc tgatcggaac cacggaactg aaataatttt ttcgggtctt 480
gtcc 484

<210> 27523
<211> 534
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27523

atacttcctt actcccatc tcacgcactc tctaactctn aaaaaannna aaaaagcgcg 60
ggtgagcatg tgatacatcg aaaacacgng aannccan ccccgacc tctaagccga 120
cagcagcttg caactcgttg ttccagtttg aggagcaacc ccctggatgg atcctaaaat 180
caaccaattc ttctagtatc acgtgacccc ggagcatgaa ccgctgacga ttgccttctt 240
ctacatggat ggtcctgctc tggcatggtt tcaactggat gacgagcaac agacacgtta 300
tagtccagcc actcttcctt taagccctga aaaccagatt cacgccttca ccattgaaga 360
ttctatggca cattatttaa ataaccaga cagaaacatt taacgcttac ttctcggagt 420
ttaacgacct ggcaaactgc attggtgggt tcgcatctcc ctttctctg aagtagactc 480

gctcgtgact attccccgaa tacacgcaca caaagtcaag tgcctcatc ttcg 534

<210> 27524
<211> 254
<212> DNA
<213> Glycine max

<400> 27524

tcttcttggt ttaaaattag taactaatgt cagtaaaggt agaaattacg tgggaataat 60
ttaggttaat taatgggtgat ttacagtctc tagaattaga aaaggggtca ataagttata 120
acacgttaaa gtggacgaca tttcatata tgactatata actagtctaa caatccaatt 180
ttaatttaat taactgggtga ctaattcaag cgtctaatta tacgatgtac aataatctaa 240
ataagttaga ggtg 254

<210> 27525
<211> 185
<212> DNA
<213> Glycine max

<400> 27525

ggcaattcag ctgcgacccg ggatacttaa gtcacctgca gttttttctt tttattcggc 60
ctgacaaggg attgaggggtg taattattga tgctgcaaca tagaacacaa atgtcatgat 120
tgactagaga aacatatttc tatgcatcag cttatttgct tcagagaccc aacatatcta 180
cctac 185

<210> 27526
<211> 263
<212> DNA
<213> Glycine max

<400> 27526

agcttctcta tatattatgc gcctgaatct gatcttcgtg tgaaaagcta tgaccatttg 60
aatttctoga gagcttccgt tgttcaattt cgagcgtctc gatattttat gcgcctgaat 120
cgggcattcg agtgaaaagt tatgaccatt tgaatttctc gagagcttcc gctgatccat 180
taccagggtc tcgattatta tgtgccgaaa ttggaatccc attaaatgta tgacatttga 240
atatttgaag cttcgttgta aat 263

<210> 27527
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 27527

agcttaactt tcagcggttat actattcatc aaaacaaaaa actacacaac gcaaattaaa 60
 taatacatta ttcaacagca gggcaagacg aaaatttggtt ccaaccactt gtgcattttt 120
 ataattataa taataaccct aatcagtggtg aagactaaaa ctagtacagt aacgtaaatt 180
 ccttttgtca tccgaatccc acagggttatg catatctaata atg 224

<210> 27528
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 27528

aagactttgc ctttgatggtt ttgatgatgc catatgataa tgatgttttg atgccttatg 60
 aaaattcact tttcaagttt aattcaagac aaaaattcca gaatacaaga taccacatcc 120
 agaagatctc tagtggtttta agaggggaat ttcaaattga aacaacaaaa ggtttggcca 180
 agaaatttaa accaaaaatgt ctttttcaag agatttactc tctggtaatc gattaccaga 240
 ggatgtaatt gattaccagt ggccaaaatg atttataaca gctattagaa aattggatct 300
 aaattttaca ctgtgtaatc gattacacat ggatgggtat cgattacagt agttataaac 360
 gttt 364

<210> 27529
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 27529

agcctgattt atattacgtg taacgctaca gaagctgcta ccgctgacca actaaacacc 60
 tgagccccct tagatgtaat gaatgagttt atcgcaatta ggggtacaat gaacatgtgc 120
 ttggatcttt acagaattaa aatgagaatt attgtgggat atttattgaa ttataattct 180
 tcctttacca atattaatac gattttggtg tatttgacgg atccattgat attctaattgt 240

gaattgggtg agtaaattga atgatcttga tgtcttaata attttggcct atgaatttga 300
tatgaatata tgaaa 315

<210> 27530
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27530

cactngtttt gaatacgcaa ggtttgagtt tggctcatta cctattatag gctatttttc 60
aaagctcgac atgggttaca taaaaaccta acttggccta ccagcatatt taaaagcttg 120
cttacagacg cctttgatca cataactatt ttaaaaccta ctgatatact cacctaaaaa 180
aaacttatta caatttcgat aacgaatgta caatcccaaa ataattgata aaccaaata 240
tattgattca agtcgtttta cacaaagttt atccaatgga atcaaaacag agagcctatt 300
taaaaaatgc tggatataca tgattattta atatagccaa ccaaatttta actgctgaaa 360
tgtttacaaa aatctttct 379

<210> 27531
<211> 323
<212> DNA
<213> Glycine max

<400> 27531

agctttatgt tacatataaa aacgagtcta tattacctat tctattatgt ataaccaaaa 60
aatattatcc gctaacatt taatacttta tttatctgta aattacattc aatttatttg 120
catcaacgat tttacatgc atgctatcca cgaatatgat gcttggtcca ttggaactct 180
caacatatat tttacattac aatcgatgga atttaattca gctaattgaa ccacgacata 240
taacatatta ctaacttcta atatctgatt ttattcttac atgtaaaaaa catatttcat 300
atgatattac attgattcaa atg 323

<210> 27532
<211> 327
<212> DNA
<213> Glycine max

<400> 27532

gtaggacttg gcaactgcct tcattaagga gtaccaatac aatacggaca tggctcccga 60
tcggaaccaa cttagggatt gattaaccaa aaccttaatc ctttaaggat attccccaaa 120
atgaagaatc tcacgccccaa ttttccccct taccgaagga gataatccat ttggtaatatc 180
gtaccacttc tatataaaac tatagctcat ccccttaact tgcgatctct cttccggaaa 240
gattaatctg cttcaaagca attaaaatct gcataatggcc cacacataaa accccatatg 300
gccagaaaa gaagaatccc cccccct 327

<210> 27533
<211> 566
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27533

agacgtcca caacgcatan taggaccatc actcaacacg ctgagccgag attatnttaa 60
anaataanaa nnnaaaaaaaa aaaagcgcgga nagttgaagc cctgtgaact aactggcgga 120
aacnaactcg gnacccgggg aaaccctana ggcgacctga aagcatgcaa gccttttcca 180
gcggttgct cactcaaaa catgcatcat accaccacc ttagggacc ggctccaaca 240
aaccgaactt gggcaccaac aaagcacaag gatttaagcc cctgcgaacc aaaccctcat 300
ccaacaacat cttgacctga agaataaact caaacccaac acgtgtggca atgctagcaa 360
gtgcctttct acaaaagaca aaaagtggag gcaggacaca aaggaaagcc cttaaagtct 420
tgccctcact gcaaaagaaa cccctctta actaactctn gaggagacac taacctccta 480
cactactctt aaccaataac gggtgccctc tattggacga aaattccttc ctagaatctc 540
cccgatatgct ctcaacttca caaaaa 566

<210> 27534
<211> 234
<212> DNA
<213> Glycine max
<400> 27534

agctttgttc gtaaaagttt cttaaaaccg ttttaaggtc caacgcctta aacggctctc 60
tttgctttta tcggctaaca tggaccgctc aaaagcataa aatcaacca taactttacc 120

gcttttgcaa gaactacgta gatctgaatt tcttatcgca attgaggatg cctatgagcc 180
 aaagccccgc ttttgtcgac caccccaaga aatccttaat gatccaacac ctta 234

<210> 27535
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27535

acggattagc ctgatactga ancactcgac ccgggatctt aagcactgag catgcagctt 60
 tttctacttc caaattagca tcaacccttc ataaggattt aagtctaaag gaatgaaatg 120
 ggtaatcggg caactctcct accaagttat acatcatgaa ctgctcaacg gattacacct 180
 aaattcacga ataaattgat ctaacaccaa ttacctaaag gcttttgtac tctgcattgc 240
 tttctttacc acccaaactt tatagtctaa tgacatcagc tgataatatt tactcaaaca 300
 taatcaattg cttcacctaa actcttttca tataacctat tactttac 348

<210> 27536
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27536

tattcaagct tgtttcaact gtgctcgtaa caagaaggac acccaagaca aaaacacgaa 60
 tctcatagga agcatccttg gttatttcac aagtacataa actgtctctt ttcattgtat 120
 ataaacttgc aacttgggat actcataaac tgcgacgttg actttatatt actttcataa 180
 cttgttggtc cttgtttcgg tgtaaaatan gaagcacgct aaataaagag agagaaaaca 240
 aaaacactca aattgcgtta ttcattggaag agactacaga gcgtgttgct cttcaagaga 300
 gaatgaggat gatgtcttcc gatattgtgg aacaggggtca tagcagtga agcaacaagc 360
 aaatactgag gtcaacact 379

<210> 27537
 <211> 215
 <212> DNA
 <213> Glycine max

<400> 27537

tcaagcttgt tttgcaaagc taatgttggg ggagagacac ccgttttagat ggctgaggcc 60
ctaacggaat gaggcgacta atccgctcta tacttagtca tgaactgggt gtacgtgggtg 120
gacaacttac atgaaacgac gttgttgaaa ctcatagagg ccgcctccag tgtagtccct 180
caacccaact tcatggtagg catcatccaa gaatc 215

<210> 27538

<211> 211

<212> DNA

<213> Glycine max

<400> 27538

tctaagctct tttattcatt ctatgtaccc ggagtgggccc acattgtgtt tcgtgcattt 60
ttattctcgg tttgtctact ttctataccc cctgttgacc gtgctaagcc attttactta 120
agtcgtttct cgctcaactt aaaagtataa taattttcac cgaacgtctg aattgtatta 180
tccattaact tcgggttaaaa taaatttcga c 211

<210> 27539

<211> 201

<212> DNA

<213> Glycine max

<400> 27539

agctttgttt atggcattca cagattcacc ttttagaatt cactgtacgg tggttccact 60
tcttgcaaag ggctcttctt gtgcttttca aataaattcc tagggatact actttgggtg 120
ttctttttat cottacactt ttgaaagttc ctacaagcta atgttggtgt aacctgatgc 180
aatcctaccc ccaacggtat t 201

<210> 27540

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27540

tcaagcttgt attgaagttt tttaagaaag cttctcaagg aagctaccta ttctataaat 60
agaagcatgt gtaacacttg ttgtaactct gatgaatgag agtcttgtga gacacaactc 120

atacttcaac ttctctccct ntttcttctt tcaatttcgt gctccccact ttctctttct 180
 ctccctctat cttttctctcc attgaagcat cctctccaag cttattatcc caggctcatc 240
 ttggtggtga agctccttct tccatgggctt attccctatt gaatggcgcc ttctctcacc 300
 tc 302

<210> 27541
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 27541

aaatataggg aatcactgga ccgggatctt aagctactga gcttctctgt ttcctgaaaa 60
 agcttgaccg ctgatgacaa ctccaatgta tggtctataa ttccttggtc atcatatcgg 120
 ctacatttga gggagtatctt ttttacctac acccgttgat tggttcgaga aatggcaacc 180
 caatgaacaa taatttggct tctcagttg atattcg 217

<210> 27542
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27542

tcaagcttat catcttgctt ttgcttgat ttttatgact agtctcacia ctggtgatgt 60
 cgatattcgt atgttcttgt acgccatcaa tgtaattngc aatataaaca actggtgttc 120
 atgctgagtg aaccttagat tcccgtttga gactgaatgc aatgattctt gtagacattt 180
 tgcattagtc attgtattta gtcttgaatt atccgtttgg atagtttggg gagactagta 240
 tttttatggt agattcattc gttaacgtta ttattatctt gattaatttg atcaaattnt 300
 ggtacaaggc atctcacgtt gttctctgag tgcatacttg attatcgaga cattaatttc 360
 atcgatgtca tgcgtgtac 380

<210> 27543
 <211> 568
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 27543

tcctantttac tctctatagc gctcttttcgt ccnctcgcgt actcgatcaa agttgactct 60
acacantttcc accannccac anaccgcgag cncgttgana gccttgtgtt aacactgtta 120
attacagctc gggacccgga gattctctac agtcgacctg taagcatgca agcctaactc 180
tgatgacttt cccaacatan ccacagagta tggaatcaga agcatagcaa ctgggtccgct 240
ttctaaaaat ggagaaaaga aagcgtaatt ggggcagttc ccaaattcac cttgttcgca 300
gnagtggaaa aatatgttga tgtctaaaac ctggaaggga aaaacatgtt ataataagga 360
aacgcttgat cataaattat agacccatct tcattttatg gctttaaaca cttcaaaaaa 420
gtactttggg gtatccacat cctttataac attttgtaaa gattaccatt gataaattcc 480
cgaggggagga atactcagtc cttttctctc tatgaggtgc ttttgccacc aatgcattac 540
ctccattttg atactgacca atattttg 568

<210> 27544
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27544

agcttgattt taggggggtct gatgaccttg ctggggacaa catgcacccc gtataaccga 60
cagaggtccg taatcagagt tggcaactcc aagaccctgt tggacttctc tgggtacact 120
gggtgtcttg cgggcgcgat ccctgcaaac aataggtgac atcataaatc agttgagcga 180
aatgcatact tacctatgtc atgatggcat gaccttgctg ggggggacga gcaccctgta 240
ngtctgacag aggcccgtaa ccagagctgg aaaccccagg accctgttgg actt 294

<210> 27545
<211> 304
<212> DNA
<213> Glycine max

<400> 27545

tcagcttatt atgcatctac tgctttaaac aaaagagtgc tccactacgc aacttttggg 60
ttcaacttat agttggctac gtcttatgta aactcaacc atgtatgttt tggagcattc 120

cagttaataa aaaatgtttc tatacatatg tctgttggtt aaaaaaatta ttaagaaaag 180
 agtatgacca tagttatcaa ctgacataca gaaaaaaaaa tggttcattg gtggatcaat 240
 tctataatct tataatatta taataagcga gtatttaaaa taggactaaa ccttagcgta 300
 tgat 304

<210> 27546
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 27546

agcttggtg attcgtgaaa ttccataatg cggcggaaat cgaaaagaga tggtcttgcg 60
 caatccatga gtttccgtaa cttcttcgaa agctaaaaaa gagtaaatac ataatccgta 120
 aggattcgta accttgcgga agggaaaatag gtatcggtac gaaattcata aagtttcgta 180
 acgttacgga aaaagaatta caaaaaaaaaa atacgaaggg ggtgcattta gtaaacaggg 240
 ggggtgtaa atgcaatctgg ccacttgagg cctcc 276

<210> 27547
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 27547

agcttggttg tggagcttct atggagggtg gatctttgag cttcaatgag gtcctttaat 60
 ggtggttttc caccatggag atgcaccgga agacaaatga taaaacggga gaggaggcgc 120
 catccactat ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 aaaagcttgg aatgatgctt cactggatga taagaacgag ggagagaaa agagacgggg 240
 gagcacgaaa ttgtaggaag aaaaaaaggg agagaagttg aactttgagt tgtgtctcac 300
 aagactctca ttcaccaag ttacaacaag tgttacacat gcttctatta 350

<210> 27548
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 27548

agcttgtcta ctgagtttaa ttttcaatag ttttagtggtg ttatatgtta gtgtttaatt 60
 tgtcgtttga gtggaaattg tgaaataaga tagtggagtg tgtggcgaga tagtggagtc 120
 tgctagccac atcttcaata ctatcagtgt gttttgtatg tgtctttcca aagtttgtct 180
 gatagtgaca tttatgtggt ttttggtatg caataaagtt cccgtggata ctcatatttc 240
 atgaagtaca tatataattc ctttttttgg agaggatggt ccaatagttt tttgtgtaac 300
 acaatctg 308

<210> 27549
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 27549

tcttttagagc cctcaacggt gttacatatg gtctccattt tctaaacaaa cttctcaaga 60
 ttttgtcaat atgatcctaa gtatcataag ttctacctag agaccttaat tcatttagaa 120
 tggtttggaa acatctttac ataactttgta tgtcttcgcc ttctccata gtaatgagtt 180
 catacttatg tgtgaggaga cttagtttgg tcctatttac ctatgacatt acctcatatg 240
 atatggctaa aagtgtccac attttcttgg tactcttaaa gctatgaact ttgtttagt 300
 cttattc 307

<210> 27550
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27550

agctntatta gtgcgggtct gggagacgat tgtcaagtgt tcgcgatatg tgaagatgat 60
 gttccaagta cttcggattt gggccgacca tgccctcctg atttccagct aggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacgggttta 180
 aaagctctat agttgggcct aagctttaga gttgtcattt tgtaaacgct ttgtgtcttt 240
 ggattttgaa tttataatac aatgatcttt cttcatctgt tcctgggtctc taccatttgt 300
 cattcattcg catgtttac 319

<210> 27551
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 27551

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 catccgagga acaaggtatt ggcgattgaa tttgctacca ttttccgttc tcaatttggg 180
 atgcctggaa atattacagg actcaattat acattcgagt aaaaagttat tgtctattaa 240
 atttgac 247

<210> 27552
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 27552

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 cttgtacaaa tacataataa agtcatctcg actcaatgaa agccatataa gtgtcatacc 120
 atgaacatag aacctatatt ctaatgtcac atcctatcat agcgtggtgt tcccgtgttc 180
 tctagcatga tgttcttcat agtcatccac ctattcatct gctccccoga acacaaatgt 240
 caagatcatc acaggatcca tacacaaac 269

<210> 27553
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 27553

ataaagatat tacctttccc actttgttag tatcacagag attacacaac atacaaatga 60
 attgtttacat agaatgatat agccgagtta aataatctga caaaaataac ttgaaaacat 120
 tttcaagtaa gtcacaaaa aggaggtggc aataattcaa catgggcttt gaaaacttaa 180
 atcatggaca ttactgccg aaagagttat ataaagctat cgccatgaac ttgtgaacat 240
 acacaatcac tggcaaaaaca aaacacttat cattttacat g 281

<210> 27554
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 27554

taagcttttc ttatatgaat ggtgctcagc taaatcaa at ccagtttaaa tcgcaagaat 60
 atccgcttat ccagcagatt acatgctcag ccccatggcc ctcaattctg actgcaatga 120
 atagcgcttg gcgacatatg gtcgcgctta gccaaaggaa gccatcgctc agcgatcagt 180
 ttgtcgctta gcagaattca actcgaattg attttggtt agctaaacct tggctagctt 240
 agcggaaata accttatgtg tcaaagtggg gtgctaagag cttaaactcg tggcttagtg 300
 catgagtgc tatgcg 316

<210> 27555
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27555

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 ataaaggcac tcaattatac atttgagtaa aaagttattg tcatttgaat tttctagggg 120
 cttatgtttt taatttcaag catctcgata tattacggga ctcatcgga catccaagta 180
 aaaagatatg gccatttgaa tttccttgga tcatacagtt ttaatttcag gcgtttcaat 240
 attttacggg actcaatcag acatccgagt aacaaattat tgccgtttga atttactggg 300
 agcttncatt ttntaattcg agcgtctcag tatatgacgg gattcaatc 349

<210> 27556
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 27556

agcttggttct attgtcaatg aggactttgg ccataacatg gtccatgcac tcgaatgaga 60
 cgtgtagagc cctattgtgc ccccgccctt cggcaggaat cttctcctcc gtgaaggtaa 120
 gatagctatt ggcgggactg atgctaacta ttcccttgaa acctttcacg gagatgtctt 180

gggccacctg ggcctcatTT atcactttga ccaacaatgc ccggtgagggc tcagagctca 240
 tgagcaattg taagagggag accctacctg gggTattggT aagctgttat attatcttgc 300
 attctctttg ttggattata cg 322

<210> 27557
 <211> 285
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27557

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 ctttaccacac tcttcacgtt tggTTTTTTT gggaaaaaca ccataactaa acgcgccaca 120
 aggcacccct atcgcaccat atccaaatct ataacgatgg gtgatcaaga agagacacac 180
 gaatagatga aagccgacat gtcggctctg aaagaacaaa tggccttcat gatggaggcc 240
 atgttaagta tgaagcagct catatagaag aacgcggcca ccgct 285

<210> 27558
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27558

cgcggnattt gggcatgtga agcccgtgat gcactcgaaa cacacggcga atncaagcga 60
 cgttcgcggc gatcacctag agtttatttg cacgtatgtt atctattgtt tatacaagtg 120
 gaacgctctt tagagacatg tgtattcttt gatattattat aagatgccta ccagccctta 180
 tgataacata cgtgcatcac gcatcatctt gtgtgagtaa ggaacaagcc ctaaagttag 240
 aaaaatgctt catagcgcac aactctttgt tgtaaccgat taccacatga ttagacatca 300
 caggatttac atcggacaat aatgacactc tacattattt gtggaccggg ttcgaatatt 360
 actgaacgtg aacttanaag agtccacggc gccctcatt gacattgcaa aatacaatgt 420
 ttctacatcg ggctctacta ccaccgatga gaaattatac cttttagtcg aagcgaacg 479

<210> 27559
 <211> 285
 <212> DNA

<213> Glycine max

<400> 27559

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tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agctttggaa ttgttatggg aataaatgtg ggggggttttt 180
gtttcattgg acaacttggg ttgttggcta tgcttcatga tgtatttttg gccatacttg 240
atgtacattg tatattgggt aaatgttgga catgctgaat gaaat 285

<210> 27560

<211> 292

<212> DNA

<213> Glycine max

<400> 27560

gcgaatcgac aacgatttta ccacaaatct tccgtgttac aaatcctgtc tcatttttgt 60
caatatcact aaaattacaa ctatgctctt taaaaaagaa ttctaagcct gattttgaag 120
acaatacttt ggagaactgt tattgacatc cctaattcaa agaccatgat tgaaaatcat 180
cttttgaagt caagtgttat ggctcttata ctcggtgcct ttctttgcat ctacttcgt 240
ctcaatagct tgcacccctc tcagagtctc tgtatggcct ctctcactca cg 292

<210> 27561

<211> 370

<212> DNA

<213> Glycine max

<400> 27561

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agctcacaac tgaattgtaa acgctaaaac ccatgtcaaa atgggctaata gggctccaat 120
agctcacgta tcgataacca gcccgttcca atgccaaaga tcagatccaa ctgttaagag 180
tccaatgcct tctccaaact gctttcagca tccactgccg tagctcggcc atctaccagc 240
actgatatgc tttgaacaca aagcaaaaac gcaaccttcc cacggttagc agccctccga 300
agcgcaaaat ctgctcagcg ttcttgcccc acgcacaggc ttaaagagga cctcgttgct 360
taaaagacct 370

<210> 27562
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27562

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 attatgtccc cgaatcggac atttgtgtga aaacttatga ccattcgaat ttctcgagag 120
 ctatcgttgt tcaatttcga gtgtctggat gagttatgtc cccgaatcgg acattcgtgt 180
 ggaaagatat gaccattcaa atttgtccag aggggtccgtt gatcaatttc gtgcgtctcn 240
 atatattatg tccccaaatc gaacatccat gtgaaatgtt atgatcattc gaatttttcg 300
 agagcttcog ttgtgcaatt ccgagcgttt agatgagcta tgtccccgaa tcgacat 357

<210> 27563
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 27563

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 ggagaaatga aattgtggct cgcaccacta tcaatcaaca ccaataaatc cacattctgt 120
 atcgccctt caaccttcat ggtgtgagac tcgccccatgc ttccaatac ccccatcagt 180
 ttacattcca cctccacttc ttcttcactt ttcaccgtca catccttcat acttacaatt 240
 tcccc 245

<210> 27564
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27564

agcttgatt ttgctattga agaaaataaa tttaaataatg caatgataaa ataatgaaaa 60
 caaattcagc ataatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120
 atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180

gtttgtgata tttctacaca cagatataaa ggaacaatta caaatatttg ttatgttcca 240
 tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300
 ccctcacaat acaatntcaa agaatggaa taagagaaaa acaaaacata gaacanaata 360
 ccacgtctaa atg 373

<210> 27565
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27565

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 attgttcttt ctttttctaa catacatact tgctcaaact tatgaaaaga aacacagtct 120
 ctatcacaat catgcattca atccaaaatc aattcataac atcaattttc acaaaaagat 180
 aaaagtgttt tactgcataa tcatcaaagt caagttaa ac tgttccatat gcttcagaac 240
 aagcatacca actatccaca aaanaaataa gtatataaac ataaatcaca atcactaaaa 300
 acaatgtact gaaactaata tagttataat cattaatcca aaagcaaaat catcacgata 360
 ttanaagtcc tgagatagat cttgtgtatc ctgagtctg 399

<210> 27566
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27566

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 ctatcagata ctatgctaga ttgcacacca tgtaacctga caacctcact tatatacaaa 120
 gtggtcaact tttccatgga aaatctgata ttaatgggaa tgaagtgagc aaacttagtc 180
 aatctatcaa caataacca tataaaatct aaacctctca gggttctagg tagtcctacc 240
 acaaaatcca tggaaatgct gtcccacttn cactatggta tctctaacgc ttgtaactta 300
 cctgaaagtc tctgatgttc tate 324

<210> 27567

<211> 281
 <212> DNA
 <213> Glycine max

<400> 27567

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tggggaactt tctggaaggc ccaagtgggc ctggttgata tttgcacccc ctgtgtacta 120
aatacaccac ttgctttttt tgctgttatt tttccgtaac gttatggaat tttacgaatt 180
acgtaacgat acttggtttt tttccgtaat gtcacgaaac cttatggatt atgtaatcat 240
cccttctttg gcttccggga tggtacagaa ctttacagat t 281
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<210> 27568
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 27568

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acggagctat gtgcacttct gctgtgaact actccagact aaggacgttt gtcttgatca 120
ataagtgcc catggactga agcagcatcg ctactgttac tgcacccctg tgagtgtatc 180
agaccatcag ataaaacgct atgagccaag aagtcataata tgcaactctcc caagcaatag 240
cctaagggtg ctacatgtgg tgaattgtat gcatcagagg tatggcgtgt atgtatgaca 300
caaaatgtgt atgaaagcat aggggcagga tagact 336
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<210> 27569
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 27569

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gcacttgcac gacctctgga ttatactatt tatgctattg aaggcgctat gaggatctgc 60
actataagat tgtaccaaca atgtgtgaat gtgcgtgagt ataaagagag acaactatca 120
agttaaaagc gttgggaaga gtgactacta aaatactctt gctatataaa acgtgtgctt 180
gtctatttaa cgtgatacta gagttcttac actaagaaat tactcatacc atgattcctc 240
acatgaagga acctaactct ctatagcctt tgttcttgat tactcaacaa acttgatcta 300
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aatgagttgc actaagtcta tagtgtaaaa tggactagat cactacactc catttgtaga 360
 catacagatt actagcttgc tctatcaagt gctaaggatg taaagcat 408

<210> 27570
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27570

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 aaagcantta tcatcaacag agatgtttac tatgctgcct ctataattgt ggtgcgccct 120
 acccatgaga tccttgttac cctacagaat tcacatggag aacctgccct agtgtcaagg 180
 atggcgccat gcgagcatat tctacagact tcccagtag cactgctcaa gtcacatagt 240
 gattgccgaa ctatggacta agctttagag atctactctt gaatgataat gaagcgcagc 300
 tctgatgac tatcac 316

<210> 27571
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 27571

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 gactgactta tcacgtcatt tacatgacct gtacgcatat gagcgaatag cccggacatg 180
 ccgttaacac ctgttattgt tgtatgcgta cgcttcatat aattaatcga tctagtatgt 240
 aatgaagctt gacttggacc ttatcttgac aagcttacac tcacaattct cacttgccct 300
 cgtgcgtgaa ctactgtgg agcatgcttc ctgatgcaca ttatcgtcac tatgctacaa 360
 cttgtgactc ctggacatat agatgatg 388

<210> 27572
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 27572

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 aagaccttgg agaataggct agaagagggt cgcctctgta ggggtataaac actggccagc 120
 gaggcgcctt gaccttggag agcctatgat actaaactta gataggcctt tggtttggtg 180
 aaccttagtg aaagcgccca gtgacgtgtc cgacctggat tttggtgaga ttcaccaagg 240
 gcagatgtta gtcgtcttat acgactaact tttgtataaa aaacttttac agaatgtata 300
 taaatcccca atttatagtt cttttgtagg attgtaaata aattttgctt tgttttgatc 360
 tatgttcatt acaagcctct ttatatggaa ttaatgttac attctc 406

<210> 27573
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 27573
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 cctatatatc atgacctatc tatctgcgaa tgctaactct ttgagatgag agagtagaac 180
 caccatacgc attctatata ctaactcaga aaatcgtcgc gccaacctgg cttgaggaag 240
 catatagcgg tctaactaca cagactgcgc aaaatgcacc caaactcaag gctctatcac 300
 gatagcgtcc gattggccat aatacagaga gcagacgata ggaaacatta ctctattacc 360
 atataaataa tgggctcgaa cacagtgatg 390

<210> 27574
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 27574
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 tactcggatg gctgattgag tcccgtaata catcgagacc ctcgaaattg attgttgaag 180
 ctctcagcat attcgaacga caataacatt ttactcggat gtctgattga gtccccgttt 240
 acatccagac gcttataatt gaatgttgaa actctcatgc tattcaaacg acaataactt 300

ttttactcag atgtctgata gagtgcctga ttatatcgag actcctctaa ttgaatgttg 360
aacctttgac ctatgtaaac cagataaat cttactcgaa tgtatat 407

<210> 27575
<211> 339
<212> DNA
<213> Glycine max

<400> 27575

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gaaactcttg agcttagcta ctcgccccct ctaggagcta agctcctcct catgacaaga 180
aaacatgaga gcaaatttaa tgggtgcttac tacgtagact actcatgggtg ctcccccttg 240
ctacggtaga ccctctgact cctactatgt gtcacatccc ttgcccttcc gagggaaatc 300
cctattcttg gatttggtac gagatgtggt ctcatactt 339

<210> 27576
<211> 267
<212> DNA
<213> Glycine max

<400> 27576

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tctacctttc tgagccgaac atggactacc cttgcctcgg gtacataaga actctacaac 120
gagacacgct cactttctta attgcttctg agacttgcca gaaacataat aatacccttt 180
ctgacttacg gaatgttgca caacgatgac caattctgca tgcttattga ctatgcgtgt 240
gactgaccac agaattattgt tgatacg 267

<210> 27577
<211> 341
<212> DNA
<213> Glycine max

<400> 27577

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accgctgata tacgacgaca tctgaccaga cacagatccg cctcggcata acatcacctt 120

gtcgcgtgaaa cttccatgcc atagctgata ctaaagacag agatcctgtc taagtgggct 180
gaaccctgtt cctgactgcc tccctcctct agtgacagct ggatatggga tatgctcgtg 240
ctctatctca catcatgaag cacgtgagcg tgcacacagag acgacaaact tcttgagggc 300
cccctatgga ctggcgggcgt gttggcccca catagctact c 341

<210> 27578
<211> 389
<212> DNA
<213> Glycine max

<400> 27578

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atgcatgtag gcctctaaat gttaggtccc ctcatacaat tggattgccc tcagattagc 180
caatatttgt tgcatagctt cttagctctt tttagccctt gctattgtca tgggcccccc 240
tatgccttgc attgtgtctt gagcttcctt ctgggcttaa gtctgggtctt tgatatactc 300
atcacttatt cacaaaggac cctaagggtg ggtacctaag tttctttttc tgggggatga 360
actgagactg tttgagaatc cttgtatag 389

<210> 27579
<211> 362
<212> DNA
<213> Glycine max

<400> 27579

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tgagatcgtc gaccgatcac tatccacagc cctttaaaag cgttttctat atagactacg 120
gatatacttcg attgtattag gaaaccgttg atgcgacaca cattgtgcta tgagacacct 180
ggggagaaaag ttgactaaga gctggagcga gtctcattga taaagtgcac gaagtgatga 240
gctttactac tttcagatat tgataagatg tcctcaactc aaaatattta tgtatgatca 300
tcttgcttga tccgacacac tatgggtgatc caattggccc atagtgacta gtctctagcc 360
ta 362

<210> 27580
 <211> 201
 <212> DNA
 <213> Glycine max

<400> 27580

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 cgtgcagaaa gacacacttt gagtggcctt ttgcataagg cgaatcccca tgctagcttg 120
 tcctagcgtg gggaaatatc tgcgggaact gactcgaagg gtatggtgag attcacatac 180
 taacctgagc atttgggact g 201

<210> 27581
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 27581

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 tcaacattct aagcctgagc ctgctctaca ctcgatcaaa gaccttcagc ttggctatgc 120
 cgagcctatt gactaccctc attagctatg gtcacctatt taaaaagctc attcagatta 180
 acctcaccct actcctactt acaaagaccc tccttatata ccacacctat tatctgaggc 240
 tgcactaggt cgtattatat attatgacct accttataat gtaacgtata ttgattaggc 300
 tcctcatata atctagcata catataactc atttcctccc ggagatgact tcttctat 358

<210> 27582
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 27582

ggctgcgccc ttttacatta tatcacacta aaaaccgata tgctggacaa cgccttatgc 60
 ggtcctatac gattgcatgc gacaagatgg accgttcgtg agcctcatat caacacctca 120
 ccttagtgcc ttcggccaga tctacgtctg cctccaatgc acttagatgg acgatactga 180
 tgatccttgg ccgccctgta cctgatctca tcatatacaa caaagtgcac cgcgcgcatct 240
 tgctcaccba ataagacgga tcgttattca gtaccacaac atgtcatgag ctatggctaa 300
 tgcttagaat accttgagga ttcatttcat c 331

<210> 27583
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 27583

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 acatatgggtc atatccgaat atgctattta ggtagggggg ggagtgatga catttatact 180
 gacatttggg ggctaaactg ctatacggtt catataatat gcaacgaatc tgatacgaat 240
 ggctaaatac atctctaact ccggagggtt ctctatactg tctcgtagcg tagatgagag 300
 ccagatctat gaagattgat gactgtgata caa 333

<210> 27584
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 27584

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 tggacacggt cactgtttct tagcatgata gtcgagagta tgctctacag ctactccttg 180
 ccttagcgct gggagatgat aactgcacat cctatgatgc tcagatgctt cttaattatt 240
 gccta 245

<210> 27585
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 27585

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 acattctaac ttgattcata gaggataagt acctttgcga caacatgggtc catacatctc 120
 accgacacat gtagagccat gttgcgttct ctcccccaa cgggaatctc ttcttccgca 180
 aacgcgatat aattgtcggg gggttatatga ttaacgatgc cttcaaagcc ctacactgag 240

atatcatgag ctacatgggc atcgtaaagg acctttatca gcagcgcgcg atgatgctcg 300
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ccttatactt gctttgttgg atgacgcgga agaactcatg ggcctcttac aagtcactga 420
ttttctagaa aacctctatc g 441

<210> 27586
<211> 309
<212> DNA
<213> Glycine max

<400> 27586

ggatcctgta agactacctg ctagctgcaa acttcatatt tacgttgttt ggctacacag 60
tgaatgagag actcattctt ctttctcat tgetgacata actgaaccgc aacggtcgac 120
catctctttt tgagatctcc tgggaagacg aagaactgac tacgttgcta ttatttgga 180
ccactatatg agcgggtgctg ctatcattgt attctatcca ctctaactg atctggaatt 240
acgtgattgt agattgactg aaagacttag cttcaatac aaaagaatcg tctaacttac 300
tcttagagg 309

<210> 27587
<211> 219
<212> DNA
<213> Glycine max

<400> 27587

gaacagctct gcatgatgat attggcgata ttgcaggaca tgagtatcgc gaccctagtt 60
attcctctaa ctataatgta taccatgtgc gctgaggaca ccgatgaatc tgaccttata 120
atgatatata tatcatatca tatctatcct tccatatcta ttcatcactt tcatggagac 180
tagcattggc cgggtaccac tctatatcat gttcgacgt 219

<210> 27588
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27588

tcgtgaaatt gaaatgggtca taacccttca cacggatgtc cgatttatgc gcataatata 60
 tcgagacact cgaaattgaa cagcggaagc tctcgagaaa ttaaaatggc cataagttat 120
 cacacggagg tccgatacag gaacatcaca tatcgagatg ctcgaaattg aacaaccgaa 180
 gctntcgtta aattgaaatg gtcataaccc ttcacacgga tgtccgattc aggcgcataa 240
 tatatcgaga agcctgaaat tgaacaacgg aagctctcga gatattaaaa tggtcataac 300
 ttctcactcg gatgtccgat tcaagcacat cacatatgga gagcgtcgaa attgaaccac 360
 cgaaactctt gagaaattga aatggcatat g 391

<210> 27589
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 27589

cagcttctta acattcctca cggatcattt ttcaggaacg tctccttagc gccgatcact 60
 taaatcttgt tcacagaatc gcttgattca ctcttattaa agagatatag aagtgcctat 120
 tgctgtccgc ccatttgctt cttgcgatac tacgctattt atatctcaac ctgggagagt 180
 gatgccactc aactcgcccg taccaccatg tctgctttct tcagaaacaa gctgctgctc 240
 tttgagactt acgtgggacg cgctagtacc 270

<210> 27590
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27590

nttggctcgtg cattcggacc tatgatactc aactgaagct caagaaagct gaataagttt 60
 gaagaatttt gactttttaca tgcccaactc tcttgagtgg catttgattt agttgttatt 120
 ttggctattg catcctagta catttgatac ctgtattgca tcatgcataa tcatggtttg 180
 tgtgaagaaa agtatctaag ttagaaaaat ttcttttagag gcaagagctc tctgtcttaa 240
 ttgattacat cctcatttga atttattaca acaagctgtc tgtaacttga gaattgagtc 300
 tcgtattgga ttaattgatt acaactatct cataatcgat tgcactattg tttgagacaa 360
 tgactaatat attccagagt tttttctcta atcaatgacc aagtggatta atcgattact 420

tctctctcat ctaagtgtta gag

443

<210> 27591

<211> 282

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27591

tagactagat accgatgaac atatattgag atggacagat agccgttgca ctattggctt 60
ctcttactta ggaggggggc tgaattgagc agcacaactt accactatta tcttttatcc 120
cccttttcaa cttattagga gacgctgctg atgcttaaca ttattaagct ctttctaaaa 180
gactgttctc ccccatgtgc tagagcaa atgcctcgat ccatatgctc tcataaagtc 240
tgagcgaggt actangtcat tatcttctgg agtgcacggg tc 282

<210> 27592

<211> 293

<212> DNA

<213> Glycine max

<400> 27592

ctctgttgca tgcttgcttg ctctatatca tcatgaaagc tcgtattgac agtagggggc 60
tggatgcctt attggaata ctgttaccga tgattggtgc tttcttgagc ctctatata 120
atgactacac atgtatggcc ctgacctatc ttgcctctat gcggctctat atcgtctacg 180
ccatcatatg aacgaacgtc gctccggtgc tctacgataa ccccttgagg accgctatac 240
ccttatacca ctacgaggcc ctctagggta tgacatcatt cgcggagcaa ctc 293

<210> 27593

<211> 386

<212> DNA

<213> Glycine max

<400> 27593

ctacttatgt ggcagggcgg gcttccttca ccttcttgct tccaacgcga actttgacca 60
ttgtttctcc ttcccgcgat gcttcttttc atgtctgcct gagtgggctt atagcctaaa 120
ccatacttac cacgattacc ttgggtatatt atcagtctag ttatgccgcc gttgtttttt 180

cctaaaccca tcccgggctc ataaccgttc cccaacataa ctcggggccat cattaccgct 240
gcacgcggaca gactaggctg cccaagagg gagtccacgg aggaaatgct gaccacctca 300
aaagactgga aagcagtttc taacgattct tctgcggtt ccacataagg catggaggat 360
gggcagctta ccaagatatc ttcctg 386

<210> 27594
<211> 360
<212> DNA
<213> Glycine max

<400> 27594

agacgctact atgacaccat tcgatccata cactgcttac agacacacac agataccatc 60
tcttcacac tatactagat attcgaatcc tacaagaaa tatcttacct tagaaacttt 120
ccacgtgcat tatgcggtat catgactgag tggcgatgac ctctgaactt tatacattca 180
tggatcacat cttggcgacg actatgacca tgccacggag gtcgcgtatc ttgtggatcc 240
gaacgcgtgg ggacagacca agttccgct gcgatcttat cacggaggcg atgggcgccg 300
agatcccgat gtgggagcac cgctgcattg actgattcca ccatggatcc tacgacggat 360

<210> 27595
<211> 287
<212> DNA
<213> Glycine max

<400> 27595

cgacgtggtt cactgaaggc ggagggactt ggctccgaag cagacatcta catacgcgaa 60
tatgctacca cgatacgcgc tacatatggg aggctgctta gcgagaacga tcactctatg 120
agccttaaatt tagacgatct aagactgaca caactatgga ctgctcagcg ggcgactcgc 180
caacatgaat gtttggcgat ggcacacgtg ctgatgcttg ctcgatgcat cgcgatgcaac 240
acgatattat gcatatcaat agcactgacc ctatcgatag gatcatt 287

<210> 27596
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27596

tcaccagca caccatcatc aaaatgagng tgtgataggg atatatacga tagaagtatt 60
gactcaaca nnaaccaaac agagncacgt tgattcggtc gctgcatnac ggaccttana 120
aactaagctc gacacagcct aactcaatac ggcacacttg agttttttatt ttaatatgaa 180
atctcatttt gactaaggc cctgggtaaa taattgctaa tactataacc gatgaatgtt 240
gctttgtcgg agctcttata taattagcac aaatctaaga tgctggcctt tatataacct 300
aaacaggaat atttgctata caacattata tttctggacg tcactaaact tctatacgag 360
aatacaatga gaaccacaaa aaccttatcc cactaagtgg atctttaaca tatgatatca 420
tacgcagagt gacttgggtat cctgggtggca acaattataa aaccctggct gtaaattgcc 480
tttgagaag ggctgtatgt ccattctaa gaaaaaggag aaa 523

<210> 27597
<211> 212
<212> DNA
<213> Glycine max

<400> 27597

cacagactgg gtaggaaaga ctgctcttcc gatgccta atccctagcgaa atgagcctcc 60
tctcacacta atctccctta gatgactccg ctctctcatg gtgcatacca tccatcgaag 120
gacaccaggc aactatacat ccctccttta tagaagctta acaagccatc ctccatcatc 180
tgctcctgca tatgcactctg aacctgcacc tc 212

<210> 27598
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27598

nttgaattca atgtcactgg caagacacta tacactactc aagctcttca ttgcatacaa 60
tgtagaggat gaaaagccct atctttacta taacataaga cganctcata tctttccata 120
aggcatgcag tcttactatg tatactggcg gatcatagaa aatgttgc atcctttaac 180
tgctaacata tccaaatctc tgctagaaca tatatgaagt tacggtttaa cattattatt 240
ctgttgtacg aaattggaat atactgctcc ccacgcatgt catcactttt gtgtctgggtg 300

caaagatgga aatatatcgg gggagcactt ctgacgattt attccaatag gcacaagggg 360
catttcccat gctgcctgaa tctatgaatt ctagccacgc tagtcattat taaaatgctc 420
aaacttcctg tacatgtaat agaacatgat cct 453

<210> 27599
<211> 351
<212> DNA
<213> Glycine max

<400> 27599

ctctagagct ggctgctgct tgcgacgttt tgtattggga agccaaacat aagagcgacg 60
gctctgagct tcttaagact ccgttcatta tgtgcttgac cttcgcttcc attgtgggac 120
cttccttgat ctctatgag tagcctcaca gcgcccacgc tgctaaagtg cagactacta 180
tgaggacgct cagatctccc ctattatacc agctatagaa tcgacatttg cctcactatc 240
ctctatacgg cttgttgatg aggggtgctca tgagccatga gtcgtgtgga ggactgggtgc 300
cgctgaggct gcactggagg atgaacgtat ctgatgccta gaccatcaac t 351

<210> 27600
<211> 194
<212> DNA
<213> Glycine max

<400> 27600

cgtggatatc atacttctta agaagagccg tgtctgggat atccttctct ttgtgcagac 60
actatgcggg agcggcctgt agcggccgct ttgatgggaa aactgaaaa ctttgtgata 120
cctccctgag accgcgtgtg cttcttgctt gggactttgc tatgggatga gatcggcgac 180
gacatctgcc atga 194

<210> 27601
<211> 286
<212> DNA
<213> Glycine max

<400> 27601

tgctgcatgc gcgctttctt tttatagaca tgaagaccat gatgtggcac ttgcaagatt 60
acccatgggc ttgagtgtgt gagccgaaaa gacggccatg aattctgcgc tttatgctcc 120

tatttgcgga gctactgaga cacataatga atcgtggacg cataaaaaag ctatgatatg 180
 gtgcctgtcg gatgaggagt gccaaagtctg aattgggagt tagtcttcgc atcacacagg 240
 actggatgca tgcacatgca ctggatactt ccttggatat tctcaa 286

<210> 27602
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 27602

ttgataccct gtcattacgt gacactatac agtactcaag cttcttattt tcagtagatg 60
 tagatgaatt catggccaca tcacggactc ctctaaggac aatagcatca ttggacttta 120
 aaaagagtat tacagaatag ccttggagac ttatgcagtg tctgggatgc catgaacaac 180
 atgatgacac tacatcacac ggaaattaaa gcatcatttg aaacaagtac acatgtcatt 240
 ggacatgtct tcaaaaaaac cttatacaag aggcttcttg gaatggtttc aaggtatgct 300
 tttaatcaaa ttgttggtga atttaagcgt gttcactatg ctggcaagaa tccttcact 360
 tgtggttggtg tcatgagaag aactcacggt ctctcttggtg cttgtgagct atcgaaatat 420
 gttggtggtt gcatccact ggatacaatc catatgttcg 460

<210> 27603
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27603

ataataagat agtgaagtca aaaactgtta atatcgttta ttagtgtgga aggttatcct 60
 gcccatggat agtaaggatc gagccttggg caaatgggcc ccaaattggg aaggaccgtt 120
 caaaataatt cagatctatt cgaatgggtc ttataagtta gaggagctaa ccctcagaa 180
 acgtactttg agcataaatg gtaagtattt gaaaaaatat aaaccaacac tgctcgaagt 240
 taaaataagc atagaataag aaaaatactg gaaacataaa aatggcgata acagtaaatt 300
 gccacaaaag ggccattgtc aatattacat aaaaagtaga atcgaaatac agaattcgaa 360
 ataaagaaat tataagttct actaatgcat gaccagtc tcatatatn 409

<210> 27604
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 27604

ttgcttgtgt gctaagtgtg tgatgggatg tgttgatttt tcgatggaac ctatacttat 60
 agtatttgag cgtgactatt ggtccttggt tgtaggggct attatagttt ctgtagataa 120
 ttcctaactt gcagataata gctgggagct tacagataat gttagagata aacattggct 180
 tgtagattaa aggtataaga taatcgtacc ttgtagataa tgtgtgacct tatagataat 240
 taattacctg ccaatagata agatattcaa acacatttga atattacttg gttagagata 300
 acctgtttgt ttgggaacca actgctaagg gctaagtggc cgctctcttg ggcattgggt 360
 acctggaggt ggacatgtgt ctttgaatgt atgtaggatg 400

<210> 27605
 <211> 168
 <212> DNA
 <213> Glycine max

<400> 27605

tgctctggag tggacgctgt acgcaggcat gcattgttcg tcatacgatc tggctgttat 60
 accccgttcc catcaatgta tataacctgg agagcatcct acgtccatcg aaccttcata 120
 gctccaggac atggatccgt cttactgtcg tctgccttaa tccattta 168

<210> 27606
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 27606

gagagcatgc agcaccatag aatgtgtggg catgaaacat acggtgggtc ttagggggag 60
 atgcattgct tctgtagggg tgtcacttga ctctctttca tagcctatgt agctctcttg 120
 agaagctagc gagagaagtc cttttggcat gcttgcttgg aaaactatat tgagaatcta 180
 gtgcttactt acgcgctccc cttgaatacc ttacctcacc ttcttgagag gcttccttgg 240
 tatcattctc ttagaatgta gagcttatca cacacactgc tctattatct 290

<210> 27607
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27607

ctctgtagag acctgatgct tgcttactta ttatgacaag gttgcatatt gggatcaata 60
 acactaatgt gatcctttta tgccttgga aaaatgggtg aactctgatt ccaagaggct 120
 ggtacttaat atttgaatga ttttttttat tacgatatat gtgaggggta aaggggtgtca 180
 cacgaagctt ctcccttaag cttttgaaaa gtgatttcca tttagggatc aagaggagct 240
 agaatagtca ttttgcttct tgttcctagc atgtaagcat atactgaaaa cttgtcttag 300
 gtgcgagcat agcggtcagt ctacttangt tagacacaaa actcaagat 349

<210> 27608
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27608

tatccatgta atgaagtccc actctctttt tcctctttta tgaacgttat tcaaaatctt 60
 tctcatccca tatagatgta tctatcatct catccacaat gatttttagag gaaggcatct 120
 catgcatata caactctcaa cataatgcat aactgggtga cacttcccaa aagatgataa 180
 tcattntacg cataattaca aaacatcatt ttaaataact accacataga tactctaatt 240
 tcatgcat taatagctca taaaatcaca cctgtgatta tagcatcgta tgaatcaacc 300
 tatattttat tatgaaatac aacacacatg tgtatcatac tattttttact cgatgtataa 360
 gataactaaa cacaaaactc aagcagacta attcatgaat n 401

<210> 27609
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 27609

cgaaggggaag agagagacca gtcacgagca catagcatgg tattgaaaga ggagtttagct 60
 gcttgctcaa agtccaagag aaacttgtct cagcatttat gcgagacaaa gaccaacatg 120

ttagccatcg tcagcaagta ccaagaagaa ttaaacttag ccatggccca tgagcacaaa 180
 gtggcgagac agtatgcctg agtgtacgag aataaggagg ctagaggaag ggtgattgac 240
 tcgttacatc aagaggcagc aatgtggatg gaccgatttg ttcttacttt gagcgggagt 300
 caagaacttc cccaattgct taccatggcc aaagcaatgg cggacaccta ctccgcccc 360
 gaggagatcc acagacttct cagctg 386

<210> 27610
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27610

aacagacttg aatcgcttga ttcttacct ataatactaa gcttgcgctt tacttgagac 60
 aaactatatg cacaaccgac ttttgttctt tatnctaaat agccataaaa agatatataa 120
 taaacctgtt tcataaaagg cttcttcaca atggaggctg cttcaatcta ctaccgttgt 180
 tgacttacta agtacaagac aacacattat taagttgatg attaattata catgatttta 240
 aatacttaca tatattattca cttgtaacta taaagattca gactgagctt aaatagcaaa 300
 tgatgtcata atatatactt tcaagtttaa tataatacaa atgcgtatgc ataataaaaa 360
 tataatataa agcgtgactc acatgttttt cctagacgta taattatggt attacacact 420
 taaatgggtt tgaaaacctt ccg 443

<210> 27611
 <211> 81
 <212> DNA
 <213> Glycine max

<400> 27611

gacctgcacg catgacagtt ttttcttctt agttgactct gaacggatat ctctgctaaa 60
 tagagtctta atatcatccg c 81

<210> 27612
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27612

tcctaggtga aatcacgtgc agccatttcc cttagagttt tctcactgcg tggaggatga 60
 gccatgtact cagaatgtgc aaaatcagaa tgctcaaaat cataaaggct caagatcacg 120
 atgctcaaaa tcaccaatat cattgcgcat attcaccaat gatggaacgc tcaaaatgat 180
 aaaaaggttt aaaatgaggc ctaactaatc tatgaaatgc cctatctatc tcaagagcaa 240
 agggctgaaa gtcaaattga ttgcctctaa aatacactac attcagcatg cgcacaacta 300
 gttgcctaata atgtaaataa agagtagggg taactacagg gaccctcgat gacaccaatt 360
 gacctacaat aagtgagcac ccaaaacn 388

<210> 27613
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 27613

tattaccatg agcgaggatg cgctcgctcc gaccatccat acgattactc gcgtgccaga 60
 ggcatactga cctgagcaca ttgggttaag aacttattct ttctacgag tgctcccatg 120
 tctctatatt acattgtacc gagaagaacg gataatgata agggagagct cgacctata 180
 aacgccgact taatctcctt agacgatcag ggggccatcg tctcataggt ctgggtgcaa 240
 ctctttaccc atatgaaaga taaggacacc gcgatggcct ctctacttct atcgg 295

<210> 27614
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 27614

tatgcttgta cgttcgagtc ccagcgtata tcgataccat cgaactcgat cgtacatccg 60
 ctgagccagt tattgccact tgaactgtct aagcggatga ccgatcgatt cccaggctat 120
 accgagacgc tcgaactcga acgctcatgc tacgagccag ttatagccac acgaactggt 180
 tacgtgggtg cctgatcgat tcccaccgta tgtagatagc ctgggactcg atcgtaca 238

<210> 27615
 <211> 186

<212> DNA
<213> Glycine max

<400> 27615

gaaagagtga tacgatcatg atgccacaca acatactagc cttgaacctc atgcgcctat 60
cctgaggtgg ctaaagagcg aacaagctca cactgatcgc ccttcgctca ctgtgcgctt 120
tctgaatggc aaacgggtgcc tgacgcctgc tttaatgaat acgcctatgc gaagctcttg 180
cagccg 186

<210> 27616
<211> 361
<212> DNA
<213> Glycine max

<400> 27616

gctgaagcgt aactgacac tctctgctta taactactgt ctgcttggtg acatgcctcc 60
tttgtgtgat tcctagataa gacttatctc atcgtcacac gccttgata cttctaatacg 120
gatctagctt ggatgaaaca ctgtatgttt gtcctcaca ccctataatg gctaattgtct 180
tcctgctgac ctcttcttg aaaatccaga aatcgttcct actaggttga ctactttaaa 240
cgatacgcta ttacctata ctactagatc ttttagaggt acaatgtgct tatgcacatt 300
tagtcatect ttgatccgtc tatgaaaggt aggatgtcaa cgtttctctc ctacgtgaac 360
a 361

<210> 27617
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27617

ctccgcgaag agatctacga aggacgacgc ggtttgggtc ccacaccgcc ctccattntg 60
atagccaccg gcttatgagc gtcaagcacc agctgcgctt ccaggccatc aatggatggc 120
cctttccaca tagagccgcg ccaccttcg tgactatgag tacacaaact cttttgatga 180
gacaccaccc cgacattgga caaacgggt gacacgcatg gcaaagagcg accctgtagt 240
gatgaacacc ttgaccagat gtggatgacg tcgatgacca tcattgttct gctaattgatc 300

atgcctaaga tctccctctg actatactga tctgtgaat ggcccaggag ccggtgatga 360
cctcctgctc tttgggaggg agccatgaat tgttgcn 397

<210> 27618
<211> 519
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27618

cccccccacc gattcatatc aatacctcgt aacgaatcgc atcaatgaac gattgataag 60
aannaaatca aacaagagaa ctttattgag tctgtcgttg cagtcgtgac ctactgatac 120
tcaagcctgc ttgaatactg ctccagatac ccgcgttcct atcttttaaa acacctataa 180
agaatccatt aacaaaccat gtgaacgcta atatacaacc tctgtgaaagg gaacaccctg 240
gcgctaccca tctacatcgg ctagacatac actccacttt caacagcagg cgaaatagcg 300
tagaggaccg caccgagtga ctttatcaac acatgcacca gctgaacggc gagaagctcc 360
tgacgctgta tgatcaactt acggctacgt gcacgtgttc acaccgaaca tgggtggacac 420
ccaccacaat aagaagcgat ccccaaaatt taacactacc tcataaccgg caacaactgt 480
gactctaaca cagtatgaca taaaaaaca ccttacacg 519

<210> 27619
<211> 354
<212> DNA
<213> Glycine max

<400> 27619

attttcacct acaaagatac ggtctccacc ggaatgcaaa tgatatagga ctctcgact 60
gcaccaactc agcagccatg atcgttagct caccatctgc tgggtgactc aaaattagtg 120
atctgagtct caatgcctag cattagctta tcccacatat cgcctataat ctccataaca 180
ctgctagata tggcagttag cacttgcttt ttctgagata ggaagtggaa tgagactgtg 240
gggacctaag gttacataga gacttatgag gctattctat gggcactctg atgcggacgc 300
cactctatga tacaatacct ccttactatt ttcttcaatg gtaaggagaa cact 354

<210> 27620
<211> 128

<212> DNA
<213> Glycine max

<400> 27620

cgggctgagt actctattgc gccctataga gagctggatg acaatatggt ggctgctggt 60
ttctgaggga aagagtgata caatcatgat gtcacacaac atactagcct tgcacctcat 120
gcgccttt 128

<210> 27621
<211> 353
<212> DNA
<213> Glycine max

<400> 27621

cccctttgat acactgggtgc cagtctcctc actagatgcg agaggattag tatccttctc 60
aaccaaatga gacacacaca tagacgtctt ccatagagtg atagataacg gcgccactcc 120
tcgagctgct acgcctagac tctgaccag cgacgcccgg tagccatact gagactgaat 180
gcaccaaaca tgtgccagct gcatctgac gacgacttag tgtctcgct gtcacettca 240
gattgccgtt cactttctc cactactacct cactgctta tgaccgcatg atccttgtct 300
attacgaggg agggaagcta ttagtctctc agtcattag gtccatgctt tgt 353

<210> 27622
<211> 246
<212> DNA
<213> Glycine max

<400> 27622

gcaggctaca gctttttttt tttctcaact gagactctga tctacttggt acacgaaagg 60
actcaaagat ctgattacag aggggggtcga cataaaatag gccacattac ttacataat 120
tagtctgata ggtaaccttc ttttggggag ctacatatcc ttatctagga cctactaca 180
tattgattcc cctactgctg tttgaatatg agtgtaagc tattataccc ttgagtagtt 240
tgtgga 246

<210> 27623
<211> 283
<212> DNA
<213> Glycine max

<400> 27623

acactactgt acattcttct atgaccatgc atatacgttt acactcatgt atagagccac 60
agatctcatt ttaaccttgc tttttattga gggctccgca tccattcatt cttcaaaata 120
agtgaactat tttactgctt cacctactag agattgacta aaactgaacc agatgcttgg 180
gaatgacttg tctcctactc atgcacagac ctatctcaat ctagataatg ctcgatgacg 240
ctagctctcc tcattgatcg ctaagcgcg g atgattctgt gag 283

<210> 27624

<211> 418

<212> DNA

<213> Glycine max

<400> 27624

cgagctcgag cctgcagctc gggatgatcc tatgcacttc tcgggggcttt ttttatgggt 60
ttcaaacgag cttgatccat tcaaagtgc aggcgggttgc tgccttaaag atcaatacag 120
cccttactat acacaacttt accacctgag acgtcatata ccattcctgt gttggcgaaat 180
tagcgaacag acccgaacca atatgggaaa acgaacgtga cgcattgtata atgccgaacg 240
gtacctgaag cgatcttgta atgtttcgcc tatgcgaaca atttgagatt ggataaggag 300
aactcttaag gacatgtgct atgggtccag cataaaagtt cagcagtgat actcttcttc 360
actgtatgac acgatacaga ctcaggatgt tgagttctcc caaacactgg atagacat 418

<210> 27625

<211> 318

<212> DNA

<213> Glycine max

<400> 27625

tcgccgcatg ctatgcttct attctgaata tgagaccccg tattccttgt ttgtacccat 60
taatgggttg gacccttttc tcgtgtaatt gagctccttt ccttgagaag gcctgtacta 120
gtcttctctt gtgatacacc atttggttgt gcgcgcatga gcggtcgcga tgatcttgtg 180
aatacaacaa gtgggctctg gagctctgga cgggagagag gatcaccatc tatggattct 240
tctgtgggtc acgcagacta ggtgtgctgt ggctgcatga ccctaattat atgctggacg 300
atcactacat ggtccata 318

<210> 27626
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27626

ntgacctaataa tttgaacaaa aggaaatcgt aaaataactt ttatgggtcaa gattagatgg 60
 tgatgataaaa gatgaagaag aagcgggaaag gttattatta atgtangttc cggggagggg 120
 aatcaaagta aaggggtccaa aaacaacgaa agtagaagcg tcaggaagag tttggcagaa 180
 agtggccttcc aagatatacc cacatgcaca ttgcactgtg atgctaactt gacaatggcg 240
 cgcaaattgg accacggcct caataacatc agaatttttc gggactagaa tgaagatggg 300
 tttcaaggca aagatcgcta tcttggttaa taacgagggg tatttttggc ttgttcttgg 360
 attcaaagag cctaccacca cctttgtttg aagatggcn 399

<210> 27627
 <211> 65
 <212> DNA
 <213> Glycine max

<400> 27627

ggagcctatg ctactactgc gccttgaatg atggacgaat gccattgatg tcgtggacga 60
 tgaca 65

<210> 27628
 <211> 105
 <212> DNA
 <213> Glycine max

<400> 27628

catgccatga taaccatact gcactggctg ctacctttgc gcttactatc acagaagaca 60
 gcgatgaaca tactaaatgg tatacacagg acttacaacg ctggc 105

<210> 27629
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 27629

cacaccatca acccaccaaa cgaaggaacc aataaccgcc acaccgaaag aaaacgaaac 60
accacaaagg acgctttgac cgtgtgatac cctagcattc agacaaccaa aaactcaacc 120
cgggatacac acccctcac aaatatacat gaaccgccct gaagaggac aaccaacaca 180
actctccgaa aaaaaccac acatcacggc ggccggcgac gccacaaaa aaacaccccc 240
acaccactac agggcgcatc cgtccccca acgaaggga caatcatcat aggaccacc 300
acaccgacaa aaaatggagg gcgagctatc aaaaagaaat acaacacccc ccagacaaaa 360
ttagcacgaa gcgctagcga gaaccttaac ccacaagaa acccgccga caaaactcaa 420
aacaagcaca acgttgata ataaagaaca cagcccaaaa gaagcggcac acg 473

<210> 27630

<211> 90

<212> DNA

<213> Glycine max

<400> 27630

gcgggctgag tactctattg cgtcctatag agagctggat gacaatatgg tggcgcgtgt 60
tttactgcgg aaagagtgat acgatcatga 90

<210> 27631

<211> 294

<212> DNA

<213> Glycine max

<400> 27631

tctacagctc gaacgtgtgc aggctggctt gctcttgaca agagtactag aggggacacg 60
cattaggctc gacagacgca gtctcacgag ttcagtgccg aaagcatatt ggcgctgac 120
gtctgtcggt cccttactgt cggataatgc ctacaggac agagtggctc tggggctttt 180
gactggagcg cgcgctgaac atgcacacaa ctctatgcat acctgagact aagtggcgct 240
catcgcaaca taccacgtgg ccagatggg agaggaccat gccgcaaaga tgtg 294

<210> 27632

<211> 401

<212> DNA

<213> Glycine max

<400> 27632

cctctaccgt aaaaaaata ttatcggccg gtgttttttt taataattgc gcaatgtcgg 60
cagaaaaata tcagtcgtgg ctatataacg accgatgtca ggtatttttg tttcaattca 120
atccctgaat aattattgga tattgtccaa taggaaatgt tcgatcggcg tcatcaggtg 180
atgcttgctt tttatttttag acctgctgga tcgggtcatct ttcctggccg acatcgacta 240
tcattttttt tatcagtgtc ggtgaataat gttttttggc cgaggtgggc tgatgttttt 300
ctagccgagt aaatgagaac acgccagtgt cggccgaaac acagcttcgg ttgagctcgc 360
acgataaaac aaagccgacc tacattgtaa gttgtgtagg c 401

<210> 27633

<211> 395

<212> DNA

<213> Glycine max

<400> 27633

gactcattaa ttttttggtt atcaacttgt caacatgccg gcttcgctag aatctctcac 60
atcacacact atacaacaga attttatcat taaatgatat caggcacttt aataatttga 120
ctaagctaac ttgaaatcat tttactacta tctctcaatt atgaagggga aatgcttaca 180
catacactgt gaatatattat aacatggacg atctctgggg taagagactt agtaagaaat 240
cggcttgaac ttacgatcgt acataatcgc tgccgataca tattcactaa tcatcacaca 300
tgatgactgt atccgcgcgt ctatcttgag aggagagcta gtagctcccc ttattattcc 360
ttactaatac gatgacatca tgggtgaagat ctatg 395

<210> 27634

<211> 154

<212> DNA

<213> Glycine max

<400> 27634

agcaccacaa atcccttaga cctccaggcc acatcactcg tagctgtccg cattcaacag 60
ccaagatgac cgagcaaagc cactccctga cttgctcaga taaccacgga agacgattac 120
ttgacgctcc cttgtctata gctgaccttc ttac 154

<210> 27635

<211> 214
 <212> DNA
 <213> Glycine max

<400> 27635

cattcagcct gagctgctga tctatgagtg aaatgacgcg tggttacttc atacacgcct 60
 cggaagaatg tggcattact tccggcgcta acagggttgag acattaaatg ctggttcatc 120
 attgaattta tggctccgac cagcggagtg tctcagaggg cttcatccat ggcacatag 180
 atcctacgca gctcaatgat atctgcgcta ctca 214

<210> 27636
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 27636

cataagtgc tcatattgaa caaattgtat tatctgttgt atacatctat tttaaaatta 60
 gaatttttta aattaaaaaa tatgattaaa gataaattta gacgtctgag ccctaaaatt 120
 tgttttagtta ctttcaatat atactttttt ataaaagcct aatcctcaaa atattttttt 180
 tataaaaagt gttgaaagta attaaaaaga attagagttc atctttaatc atatttttta 240
 atttaaaaat aatagtcaag gaataatttt aaaaaataat taatgagaag atcacatata 300
 atttgattga ttaaaaatta ataatatcaa aatctctaca gtcacaaaac tatgtgattc 360
 agctttctcta ttcattgata gttgcataac tctcg 395

<210> 27637
 <211> 154
 <212> DNA
 <213> Glycine max

<400> 27637

gagcgtgcta tgctttgatg acacgatcat ctgacttctt tacacgattc ataacatacc 60
 ttgattgcct gaatctatga tatgatactg agagatccat tgatattgca gaacgccact 120
 gttggcatct taacaaagtg gacgccactt tccg 154

<210> 27638
 <211> 294
 <212> DNA

<213> Glycine max

<400> 27638

ccatgtaacg ctcattggacg tgggactggt atcacgctcg atgtgacctc ctcttcctat 60
cacgcccatc tcctctttat gttgcaaaca ctacatatgc acattagcct ctatgactac 120
aacctgcacc tactgtgcat tgaccttget ataaaatccc cactgaagat atcaacgctc 180
ctatcactgg atcgctgggc cagtactacg cccctcttgt gtagctgacg gaccctaata 240
cgctcgttgc ccatggagct tgagatgata ctgatgcata catctctgat gctc 294

<210> 27639

<211> 190

<212> DNA

<213> Glycine max

<400> 27639

gcactatgtg gcggatggca gatagcgcag aacgagtatt taccctacc tcacaggcgc 60
agatacactc catctcatgt ggccaagctc attctgtgct aaactactaa cacgtgtccc 120
atactctgca ttctatctac tgtggtacag cattgatcat accaaacgaa tccaacagac 180
ttgttattct 190

<210> 27640

<211> 162

<212> DNA

<213> Glycine max

<400> 27640

tagaaagatc ggacgacaag tgctacttt gattgactgg cctcaagact ctcatgtatc 60
agccactctc catgtgtctc acctgcctct atttgatgcc tatggaggat ccttgaaaat 120
caggactgat actcttctat aaggaggctg ccttgaggac ct 162

<210> 27641

<211> 142

<212> DNA

<213> Glycine max

<400> 27641

ttcagatctc tcaaactgct caaagatacg tactgcttga tgagcgtgaa atgcggctct 60

gatatcgaac atatcacagc gccggacaca acatcattgt gtgacattct ggcctacct 120
catcgaatag cacttgatgt ac 142

<210> 27642
<211> 382
<212> DNA
<213> Glycine max

<400> 27642

cagtcctcac tgcacgcatg cacaactctt atgttttgat tcttaacacc atagaatact 60
tgcgcatcat tgggaacatta tgatattttg cgcgcgagct ccatgccata taactgtacg 120
ctacaactct aagtcttgta tccaacgctt gtcaatgaaa gaaatgatat agcttgtgat 180
ctaatacatg acaactactct acattgcctg tgaaacaaaa tttgctttaa catgcacatg 240
ataccctagc ctacttgcgc taccacatgt cttctattat tgatatatta tacctacgtg 300
tacatgtaca ctttattccc ctttgaattt gctggatgta ttatatccaa caaaatcctc 360
gagtatttcc tatgagacta tc 382

<210> 27643
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27643

tgcattgaa gtagcgacat tctatgaagt ctctcaatg atatctcaag catagaagcg 60
actatgggac ctgagaccat cgacatcagg cactcggtac tggagcacca tcaatgcgtg 120
aacaatgaca cagcataaga tgtgactctt cattataaag actgaagaat aaagcgatga 180
gcaagctcta ngaattgatt accttaatac gtgtatgcga taacgacata gctgggtgaa 240
tatccacaat atgattctcg ggaaagttgg tatcttatcg ctccactaca ctggtgatct 300
atgactacct tacggatgta gagtaccaga cactctaact ctgtgacatt gagta 355

<210> 27644
<211> 342
<212> DNA
<213> Glycine max

<400> 27644

ctgcatgcgt gcaaccttca tgatgtttga actactggat caacgttgtc ttgcatcatg 60
 actcatggga tgtccattgg ccatgaacat tgatggctag acggtgtcta catgctcggg 120
 atcactataa gctcagcata atatatgaca tcgggaggaa tctctacttt gagagagatg 180
 acttccttct ggttgatcgt atagacattt tcatggccga gcttatgtca atgatggttt 240
 acgagataag ttattgtctc attttctaag ttaccagagt aattactcat tggttgactg 300
 ataccacttc tctgttagtg attaccaacg gcaaagatag at 342

<210> 27645
 <211> 179
 <212> DNA
 <213> Glycine max

<400> 27645

taaatacttg tatatgaaaa tacagaggct acaagtgtc actgagctga cagtatcaca 60
 cttatgtgcg ctattgccat gatcactaac atgcatgcta tagacaagat aatccaaaca 120
 taggataccg tattgattcc tcaaacttgc gttgacaggc ctttgttatc ctattatca 179

<210> 27646
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 27646

ttgctgagaa cagcatag acaataactca gagctatcct atatatacaa agggaagata 60
 gtcgctaaac cacattgacc acaacaact aagcaggatc tgtcaaacac taacctgcc 120
 tgcactatat ctcaccgagt atacacggga caagacaacc tataagcagc aggctacgtc 180
 ctactcatgt gtataatttc attccaacca agtgcaactg actgacacgc tgtgaacaag 240
 aaggagatgg tctgatacata aca 263

<210> 27647
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 27647

tctagaaatt cgaatgggtca taagttttca cacggatggt cgattcggga aaataatata 60

togagaccct cgaaattgaa caacggaagc tctcgagaaa ttcgaatggc cattacattt 120
 cactcggatg cccgattcgg gaacataata tatcgagatg ctcgaaattg aacaacggaa 180
 gccttcgaga aattcgaatg gttataagtt ttcacacgga tgtccgattc ggggacataa 240
 ctcatctaga cgctcgaaat tgaacaatgg aagctttcta gaaattcgaa tggtcataag 300
 ttttcacacg gatgtccgat tcgggaacat aatatatcga gaccctcgat attgaacaac 360
 ggaagccttc gagaaattcg aatggatttg 390

<210> 27648
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27648

ntaaagcaca gcaacacaga atctaggtgt ccatctccct tcaattcaat gggttttcta 60
 ggtttgagaa gtgaaattga ggatgaggtg tatttgaggc aaactctcac ctacacaaag 120
 tctataacat caatctaaac ttgctcaaac tggatttaca cctaaaatct caccgaatca 180
 aaatttgact cttcaacacc caattttgcc ctagaaatgg ctcttggttc actttggtca 240
 tttgtttttc tctctagcac agcctaacct ttctcataag tcctaaatgg catttcaatc 300
 taagattaac tcaacttaac ctctanatac taccaattcc agatttggcc ttccagccct 360
 canaaattca ctctttttcc actcataaca ccacattttc acttt 405

<210> 27649
 <211> 296
 <212> DNA
 <213> Glycine max
 <400> 27649

agtgacattg aacaaacact aaaatataaa gtcatacata atctgatgcc atgttaaaga 60
 cgaagaccct aatactatat atgacatggg tacagcaatg ctataacttca cagatgctag 120
 atttcaagaa tgatctaata atgccagatt ggatagcagc ctactagaga ctataacggg 180
 agctaaactc tcgattcaca tcgatgcac atacgaaatc actaatcata ctatacgttg 240
 acgagtcaga ggatgattat catactatat cggagtagac cttctgaaca ttacgt 296

<210> 27650
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27650

cgccacggag ttttccgact atgctcttgt gtggtggaac aagctacaaa aagagagagc 60
 aagaattgtg gtttgaaaga acaagggtga tgatgaaagg aaggaaagaa tcaactctttc 120
 cagcgagggc aacacacaaa ggttgagaaa gtcctttgat acagccaagg tgttcttgaa 180
 tcaactcaaga atttaggaga atcaactctca ctaagataaa agagataaac tctaattttc 240
 tgaataaaac tcaacttgtg tttattgata aaatgggttca gcttatatag aagctgtaca 300
 gcagatttta gtaatgacc actaacctag aattaaata acttaatgcc attaacctan 360
 ggaattaaaa aaaacttaat ggctgagtgt aactgatatt gtggcan 407

<210> 27651
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 27651

cctgcacttt tgcgacctgt ccctatccca ctactaagat acttaggaca gagatcggct 60
 ccttatctag aaggactagc accctagtcg tgaatttact cccttgtagc tgaggagact 120
 atagatctac ggacttgacg aggggttagt actagccgct catttgacga ctacgccata 180
 actatcatca tgaggacaaa gtgtgattct agggatcggg acgtaagaaa gcatcgcgga 240
 ccactgaata cgac 254

<210> 27652
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 27652

tctgcccaca cttagaacct cgtgaggatc ttatccaagt gagcttgtga cttcaccaga 60
 caattgtgca tgatcagcac gttgcgatgt tgcttaatat gtctggactg ctgtgaatgc 120
 tgccgttcac gagaacagtt ctcatgggtg ctttactact tttggtgggg tgctcgcttac 180

gaagctcatc attgatgtct tgaatgcttat atcgactatg gttatcgagt accaaggggt 240
gtcttcgtct accatacgcg acatcaacct ccagaaacct tcggagcctt tcgttgtaac 300
ccaacatcct gaggaactct tta 323

<210> 27653
<211> 397
<212> DNA
<213> Glycine max
<400> 27653

agtttttatg atgtgctcat ttgtataaac atctatatat tggtagtagt tcaggctcac 60
gtaaccataa gctgcaataa tatgtgaaca tgcatagtga aacgctgaat accttccgca 120
ttgacaataa tgaccattca agttaactgc ccacttttgt ccgccacgtt gcgtaataag 180
attgaaggtc tcctctactt caaaccttgt ggagtggatg tcatacacgc gaatgatgtg 240
tgaacaagct tgttcttgat tttttctaag ttctttaaca agctttgaac aatatacttg 300
cccttcattt aactgtctct gggcttggtg gccacgctca acaaagtact ttcgacacct 360
actgtacgtt gatttgacca atgctgttat gggaatg 397

<210> 27654
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27654

ataagcgcca gctcgacagc taatatatga tttgacgatc aaaagtattg cgagggttaga 60
tgggtgcttt ttaacggagg ggaaaactta tcatggcaat tacataaaaa cggacaatga 120
tataatacta gttagagtag agaagcaaata tataactga agtaattagc cacagcaagt 180
cttactgctc atcaaccagg accgctatgc cttangcaaa atttacattt aagttctaata 240
ttattatcat tatcttattt atttattcta agttcatctt taatatttaa atattttact 300
tttaatatatt aaaacaacag attcaatcaa acttattttt gacatangta gtgttatata 360
agatttaaata aattataat 379

<210> 27655

<211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27655

agttatgtat gttgtaggng atcatgaatg gataatgcga tggagagcct gtaactggat 60
 acattgacgg gatggaaaaa aatgctgaag ctgaagggtgc acacaatcct tcacatcact 120
 ggagtccttt tgagtcacta atgattaaga agatggacga tatgcttcac ctctatcatg 180
 agcactaagg agaaggatcat agttcattga acaatataac taccgcatg gaaaacagtg 240
 agactatgct gacccttagt aacctactta accctgacga ggatgaagc 289

<210> 27656
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27656

cctgtanttg aactttgaac atgagaacgc tcgaatacng agacacttcg ggccatcagc 60
 tgacaaggca agcatctgtt acganagttg tccctttggg acacaagcgc gaagacatag 120
 attgggaaca tacgcgtgcc attatatcat acattacagt gaattgagag cctgccgatg 180
 cacgtatttc cttactaacg atcgcttgaa caagtacgcc tattatacta tacaagagca 240
 catgtatagt gaccaagtca taggcttacc tacaaggttt gcatgggctc ccaacgtgga 300
 aatggacact acttagacag gacactgtgt tggatcacat aactgcgtac tgaatggaat 360
 ccgtggaaca atgcagtgtg cacgctctca tctggggatg ttaatgagaa tacagatgac 420
 aactttatga tgaatcttga ctaagtactc aatcttgtgc ttgattacaa gcttgtn 478

<210> 27657
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27657

atcttngtat gatttagttc tcaccggcga aaggatcgaa gtgggtctga aaagaggcaa 60
 atttgatcat cctgctttga caaataaaaa gcctgcggca aatagagagg atgaagagga 120

gggaggaacc catgtcgtgg ctgccattcc tgcattggcca aattttccac cagccctaca 180
 atatcaacac ttcgccaata tcaacccttc tcattacca ccaccctatc agccaagaac 240
 cctaaatcag ccacaaaggc caccctaaa tcattcaata ccaaaccacca cccttaaaga 300
 agccaaaatg ccaaccaggg aaagaatfff ccagcataga agcttataga attcacccca 360
 attccagtgt catatgctga cttactenca tatctact 398

<210> 27658
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 27658

tcgatggaga acaaccttag gatgcagagg gaacactttc agagatgtat aaattgtgca 60
 agcaaaatag gtcacgtcta atataattta aattgtaagt tcaacatcgg ttttcaataa 120
 aaataaacia aaaccaatgt taacaacttg atgttaacgt taacatctat tttattaaac 180
 aaaccgatgg taacgaacta aggttaacat cggttttatg aaaaccgat gttactaat 240
 taatgttaac atcgggttatt ccaaaaccga tgtaaagtc acttcattaa catcggattt 300
 cttctaacat gatgttaacg tatacacatt attcacaatt atgccaccgc gttatcttaa 360
 catcggattc taaaaaacg atgtttataa agtctcatta tttatcatct tgccaccgtg 420
 attctgcaac atagat 436

<210> 27659
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 27659

tgtcttttac ttttaataa taacctatat actaatgtca catcctatca gagcgtcgtg 60
 ttcccgtgtg ctctatcatg agggctcttca tagtcatgca cctattcatc tgctcccccg 120
 aacacaagtg caagatcatc acaagatcca aacacaacta cacacaggga gtgagatata 180
 acattcctag ctaatagaga aacaagacia tttaatatac atattatata actgacatac 240
 caattgctta aacatagctc acgtaacttc accactgctt cattcaaaat tcaactgttca 300
 atcatcaatc acattacaca agaatccac ccttcgatcc agatataata acacatgctt 360

tattaagcat atgcgacaag tatgctgaga ctcaatacta tatg

404

<210> 27660
<211> 445
<212> DNA
<213> Glycine max

<400> 27660

actcaagctt atgctgcaaa catttataat agaccacctc agcagtaaaa cctttctcaa 60
ctaaataatt atgacctttc aagcaataga tacaatccag gctggaggaa tcatccaaat 120
ctgagatgga caagtctctc ataacaacaa cagcctgccc ctctttttca gaatgttaat 180
gggtccaagca agccatatgt tctctctgca atgcagcaac aacagcaaca gtcacaacaa 240
agacaaccag caactgaggc tctctctcaa ccttccttag aagagttagt gaggcaaatg 300
atcatccaga atatgcaatt tcagcaagag acaagagcct ccattcatag ttgacaaat 360
cagatggggc agatggctac tcagatgaat caagctcagt cccaaaattc tgacaaattg 420
acttcacaaa ctgtgcagaa tecta 445

<210> 27661
<211> 397
<212> DNA
<213> Glycine max

<400> 27661

ttagtttatc ttccaaatth tgggttaagct ttattgcgaa ataacatcag cttcacgcca 60
tccccaaaat gagcacaaca tcaagcaggg taagtgactt aaatattttc caattgctta 120
gcttttgttt gacgacaatc cgatatcatc ataataacta tttagaata tttactttcc 180
acgtattatt aaaactacaa gtaattaata atcacacgaa ctatttttga gatttgatcc 240
aataattttg aaattaatca ttcacaaatt aaaagttggt tgataaaatg tttgaaaaat 300
taaattcggt taaaactaat tgtctcactt gataagagat tacatgtata aaaataataa 360
attaatgtaa tcaagctaaa tgtatttcag agataac 397

<210> 27662
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 27662

aactcagctt acatttcctat atggaaaaat tctttccatt ttaaccttat atacggccga 60
 gatagagcat ataagtgggg gcaatcctca tcatatgagc taagttttgg ggtcgaggcc 120
 ccaactcaca ttctaagatc gcatcagagt ctaatatataa tccattcgaa aggccacccc 180
 ccatgttatt catgctctac acccaaaagt gctaggcatg agggggggctt attggaaaat 240
 cccaantac cacattgcct acaaaaa 267

<210> 27663
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27663

ttagtttttac acattcaata gacatatgcc aaatggccaa atagccaaat agtttgga 60
 ggtcacagtc acttagtgca gattttatat actcatataa tcatgattca ttcttaacga 120
 aaagataatt tctttctataa catcaggact tttttgtcaa aatctttttg gagattccaa 180
 aataacttat taataatctt atacttttagt tgcaacaaga gagtctaact cttgagattg 240
 ataaatacta ttttgataaa atgaaacgac tgtacagttt tcagaaataa taaatatata 300
 ttaattaatt attattatta tattaatacg tagaaagaga ttacgtanat aaatacgaga 360
 gaataaatca ctcttttaag acatcataat aatcatttac tgaaag 406

<210> 27664
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 27664

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 gaatttcata aaaagggttg ttacataatg aattttgata tgaactaatt ctttgaacaa 120
 ttcccatgaa tccgctaatt agaatgatca tgtgttattc taagtgatta tgacttggtt 180
 tactctatag aatgatcata tattctaaga tagaagcagt ctagcagatt ttgaggaaat 240
 gacataacct tttagatttt acgttataag gatatcatca actatccatt atacaagaag 300

ctcaagtaca agaggaggaa gtcagcgaat atattgtact atgcaattaa attttcatcc 360
 taaatcttgt ttgtggtcta tacgagtcac ctattgattt aagatgcttg tttaacgata 420
 gattaat 427

<210> 27665
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27665

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 ccaactcacc atataccttg ccctctaaag aaaacatgta attatgaatc tgattagatg 120
 agaaaaggag aataggagaa aatgagaaaa ttcccgatca atagaataag atgaaagcaa 180
 aaagggaaaa ttcccaatca aggaaaatgg gggaaaacaa aataagaaag agaattctcg 240
 atcaaagatc ggaagagaaa agaagatata tgcagaaagg tcttatgacc agacaatatc 300
 tgaacaatac agatttgtca ccaagtaaac aagattagaa tggaaaccac gacctanagt 360
 ggtcctctcc ctttgattgc caaccaaact cctgtgtgtc agcgactttt tcgtcctgca 420
 ctatacaa 428

<210> 27666
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27666

atanagcaca gcaacacaga atctaggtgt ccaacatcct tcatttcaat gggttaacta 60
 ggttggaata gtgaaatata caatgaggtg aatacgaagc aaactctcac ctacacaaag 120
 tccataacat caatctaaac ttgctcaaac tgaatttaca cctaataatc caccgaatca 180
 aaatttgact cctcaacacc caattatgcc ctagaacag ctatttgaac attttgatca 240
 tatgaacttc tctctagcac agtccaagct ttctcgcaag tcctaaatga cattttaagc 300
 tagtattaac tcactttaac ccccatctac cacagaattc agacttaacc ttacaactct 360
 caaagcctca ctctttctac actcataaca taacattctc accttctaac cctacgttga 420

<210> 27667
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 27667

cgatcagctc gtcccgggat cttaagcacc tgccggcattt agtttgccgc ccagctcgcc 60
 caggcgagca aggttgcttc ctccagaaga aacaaccttc tggaggaatc ttttggaggg 120
 cccaagtgga cctggttgct atttacaccc ccctttttac taaatgcacc cccttatata 180
 tttttctgta attctttttc cgtaacgtta cgaaacttta cgaatttcgt aacgatactt 240
 attttccttt cgcgaagggt acgaatcctt acggatttat gtatttactc tttttggctt 300
 tcaaagaagt tacggaaact cacggattgc gcaaaaacac ctctttttcga tttccgccac 360
 attacggaat ttcacggatt acgcaagcct gcttcctttt ggatatctga gacgtctcgg 420
 gacttcattt attgcatgtc at 442

<210> 27668
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27668

tatgcatgga anatgtaatt atgaaattga gatgcctgaa ganacaccat ttcctagtta 60
 accatgcatt angtaccatg ttcattattt tgttttaagt gaaatggggt tatgatccca 120
 acatgggttg ctcgtggtgc ctaacacatg aaactaagaa tgtaatgtga aatttcacgc 180
 ttcccccttc tttgtttttg ttttgtagag gaaaacgcaa ggatgagcaa acatgaaaac 240
 aaatggtatg caattttgca gatcaaaaag tttgttgaac gcatatgcat gatgatgcca 300
 tgactcatgc aaaatgtgag gctgaaatat gataacggac aaatgcagga tatgtccatt 360
 atgatgttat gaagagatgc ttatgcgatg catgatatga atgcatttta cggaca 416

<210> 27669
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 27669

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ttatgtctgt ttggnctnc ttgnctctgg aaaattaatt gtttggtcat ttgcattcca 60
acagttcctt atgatataag ctaaggcaat ggccgttctt acgttttcat aagaggtaag 120
ggcatcagat cccactcccc tcgatctaca caagggtgtg attaaagctg ggaagcctaa 180
ttgagaagag ttggactgag cgatcatggt catttgtcca gagatcaaac cgacaatggt 240
catgtccatc cttgtgatta agccatagac caacctatct ctatctgtgt tcaaantga 300
agtgcacgag gtaagagcta ggtagagta tgagaagacg cttcatctct gagccagggt 360
ggtaagatat tttctg 376

```

<210> 27670
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27670

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ctataaaact caagctttgg gcgtgaacag agcttcagaa ctaagagttt cagcaaaggc 60
ttaactttct catacaacag actgagctgt acagccactt tatgcagaac aagtcaagt 120
tacactcttc agatgcttta cctcggtag atgaaaacac aaatgatcaa gatgtactgt 180
ttgactcttc aaacgctggg cataatgaag aggaagatcc ggaagaggct gaattaaaga 240
atgaagctnt gaaggctgct caaaaagcag tctctaaaca gagaatgttg actaatgctt 300
ttgacagtgc atgcttgagg ttccgccagg tggatgatgc cgattcactt acacggcaat 360
tagcaggatg aagtaacatt gatttgcaaa ccccgtagc ttt 403

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<210> 27671
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27671

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gcgatgtgtt ttatcttatg nggctcgcat atagcatatc ctacgcatat aacaccacga 60
atgagcactt actccactc aacttgtggt atacaccatc atcacctgct tttgcctcac 120
aatcatatga cggaacgacc tgacgaaacc tgtaatacca ttgatgggaa tctcgtctct 180

```

gacaatacat gaatccatct aggctgcaca ccctacactt tgagtcacct gtaacacagc 240
tctatggatg catcacatca attgtgtgta caatgtcacc atttataaac gtacacctaa 300
ctacaatcta gcagttccta 320

<210> 27672
<211> 299
<212> DNA
<213> Glycine max

<400> 27672

tctcatatgt ttacacgttt ggacatttac ataagctgac ccttattcct ggtctagcaa 60
gctgaggatc ctactcatca tattagcgtt gccatattg ttagtataca cgatgcaccc 120
ccctagtgtc caatgctgat catgatatat ataaatgcta tgcctcattc tctgcatgga 180
gtggtgaaaag aacggctatg ccacctagct caccagtacg ttctcaccta tgatgaccat 240
ggcaggggtga tattgcagag aaccttcact gtctctacga ccagcgacat ttgataata 299

<210> 27673
<211> 410
<212> DNA
<213> Glycine max

<400> 27673

agtatgatag atacgttggg tcagacctaa gctcttcctc agaagcaatc ccattcacat 60
ccttcgttcc tcgaaactct gaaaaggcag caggagcacc accaccacca ccaccagcaa 120
acaaccctcc tacggcactc aaagaaccgt ccacagttgg aggcgcgat ccactcctaa 180
aaatattaag ctctcgtcga cgatcatcag cctcttgtct gcgttgctca cgaagtaaca 240
tccctatctc cttctccaat tcatcaccaa aagaaccctc gttactccca agcataggtc 300
ttcttcccaa ttcagacaac atttttcaaa atctcaattt gatcaccacc cacaatcat 360
caacctcata tagcagaaac tgatcactac ccaccaccag aaatcaaacc 410

<210> 27674
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 27674

tgcatacgtt ttcccaattt agtttgngaa tcacctttct ctacctagnt aattctctct 60
tttcataatc ctcatatccc ctgagttggt acagggatta gagcacatat cctcaatgat 120
ctcgaaggca tcaatagggg gttttaacat gaggttacct ttacaagcaa catctaaact 180
tgtcctattg tgtgaggaca ctctaccata gaatatatgg atcagtatct attgagtaat 240
gtcatggtgt ggacaacttc tggtaatttc tctacgagcc aaaaaccttg tttgcgacat 300
tccccctggt atagaaggta taaaaataat aaataatgga attctttgta agagctacaa 360
aactgacaac tctattagaa agtagaatct tgcaaccttt ctcaagcgct ctcttggtct 420
ctatgtacaa agt 433

<210> 27675

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27675

tgttttatat atttatatta tgnaactttt tgcaatttta aatcaattat taattctagt 60
tatatgactt atacttaatg atgcattgta tcattaatta ttttttattt gataaatgat 120
atataacttaa tgattaacac tgaatattat taatcattct tcaagaatat acatacacat 180
tcataatctc tagctcttct gtgtatttga tctttaaaagc tcacaaaaaa tctttcttta 240
atgtaattga catgacatgg acttgatttc ggcttatata tatataagtt aatttggaga 300
cacgacgatt gtcttctggt taatcatcaa atttagttct taccaccaac attttttaat 360
gacttgagtt gatata 376

<210> 27676

<211> 362

<212> DNA

<213> Glycine max

<400> 27676

tcgagtaaaa taaaagatta aatggtctta atctattaca attttttaaa tgataaacta 60
aaaaaagttg acacattaaa attaataagg gaaaagttaa tcctgatact tttcttgtat 120
taacaaaaaa aaatttgaca ctaaaataaa tgagattagt aactatgcac agtaaaaaat 180

tcaatcacia atatttttta aaataattat tctaaactat taacatccgt ttagtagagt 240
 aaacataaat gaaaaataaa taaattaaga tgaaaattta gaattaaagt atacaataaa 300
 agtatgaatc cccatatcat gtatattctc ttaattttca tcttctttta ttttcaaacg 360
 aa 362

<210> 27677
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27677

agtttgatg attatagggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tggtgccac 120
 ctccaactga gctcacgtac tcccacgtag cccatattct cgttctctc aacactgggt 180
 ccccatcaat cctcccaagc tttcccaaca tccaagtaat ataacattca gacagcacia 240
 attatcacag ccaagcaaaa tagggcaaag gcagaaaact ctgccccaaa caccaaccaa 300
 aatcacagct tttctcactt anagacccca gtaataattc cttcgttcca attcgttaac 360
 cgttggtatg actcgaanat tntactggaa gtctctagta ctta 404

<210> 27678
 <211> 434
 <212> DNA
 <213> Glycine max
 <400> 27678

tgtgcattca atattctgat gaggggtgtc catatgttct caagattgga ctatatacat 60
 ttgctgcca agtttcatgg tcttgaggt gaagatctc ataagcatct taacgagttc 120
 catattgttt gttccaccat gaagccccct aatgtccaag aagatcatat ctttctaaat 180
 gcttttctc attctctgga gggagtggca aaagattggc tatactacct tgctcccagg 240
 tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt ccctgcctct 300
 aggaccactg ccattagaaa agacatttca ggcatcaggc aacttagtgg agagagcttg 360
 tatgagtact gggaaagatt caagatattg tgtgcaagat gtctcacca ccagatttct 420

gagcaactcc ttct

434

<210> 27679
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27679

agctnggtgn attagnngna acgancttca agagtgcac cagtctcaag ggtcacgacg 60
aagctcgatt agtagtcata ctaaagagca gattgaggat attttaaatt caaagcagag 120
attaaagggg gaaaagaata tgcccaagga agatctacat attaagcagg ctgcagcgct 180
ggttgtcaaa cttgaaggaa attctctgtt ctcatctgga agtattgctg gagctgcac 240
aaaatactct gaagcttttg cattgtgtcc tatgagatca aggaaggaga gagttgttct 300
atacagtaat cgtgctcaat gccacctttt gctgcaacaa ctttggctg ccataagtga 360
tgctacccgt gcaactatgtc tccataaacc tgtcaatcgt catgc 405

<210> 27680
<211> 427
<212> DNA
<213> Glycine max

<400> 27680

ttgaagggaa tccattcggg tgctgagttg ggagatgttg cgaatttaaa catggagaga 60
ctcgaagcag ttgttggtat ggaattcttc agtggtgttt ggcatgtggt tgggttatta 120
atctgtattc tgtatgtatg tggctaagtt cttgttggtg attgttggtt ggtgtgagac 180
tcagtgattt catgagtaag atgatccagc aaatatatac tacttttata tgtggtatga 240
catgggggtga gcttaataat tataaaataa atatttattt tcacaaatag gttttgaaat 300
aactgtgaat cataattgtt gtacaaactt gaaaatataa gggaaagttg cttttgtcga 360
tacatgctgc acgtgttgat tacgttatgt caattgacac aaaacaaaac agcactggtc 420
ttgcaac 427

<210> 27681
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27681

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actggaagga atcagccaga tgggtggagta ttccatccca atttatccca tgtgcatgcc 120
atgtaagtta tgttgcataa tctgcattag caaacaaaacg cctaaacctt ggaatgatca 180
gaagatacta ttacaccttt gctagggggc ctttctttgt gctttcatca ctgctgaact 240
catcatcatc cttcactttg taccatgata cccacacctt gnggcattta tggagttctt 300
caaactcatg tctgtgcaat atgcaatcat tatagtattc atgtatnttt tatactccat 360
acccattaga cacaatatct tcttcgcctg ataataactt 400

<210> 27682
<211> 427
<212> DNA
<213> Glycine max

<400> 27682
tatggtaaaa tctgtgacct agccatgttc taagtctcta cagaggccat tgccctccctt 60
gccagttatt atgaccagcc gttgaggtgc ttactttttg gggacttcca gctatcaccc 120
atgggtggaag aatttgaaga gatcctagga tgccctatag ggggaaggaa accatacctc 180
ttctcaggat tctatccctc tttagctaga atttctaaga tagtccaaat ctcggcgcag 240
gaattagacc acagaaagca agtaaaaaat ggggtggttg gagtaccgag aagatgtttg 300
gaggcaaagg caataatctt ggcaggtaga ggcgaatggg ccccgttcat agacatccta 360
acactattga tcttcagagg atttctcttt ccaaagtgtg atgtgttagt gggcctagca 420
gcgatcg 427

<210> 27683
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27683

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cagagcacca accacatgtt ataaatatta gttgaccaat attaggaacc atagtgccaa 120

acttgttggt ttaagtgcac gttacttttg acatccataa aaaatatacct aattttcaaa 180
 caaaatttga ctttagtggc ctgattatac aggtggatag ggtagcagct gatgcaaaca 240
 atcatgctac ataaggttga agaaaaacgct cactgaggta attgacgtta ttaattgaat 300
 cctcctcctt tctaaggaaa tctgcaagtt tacattaaat ttcaattttc ctatcctcta 360
 cagataacgc ctagtgcgaaa tttctgcac cacaatcattc t 401

<210> 27684
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 27684

atatcattat gaatcacgtc ccaatatgtt gaagaaaata ggttgaaatc tgtttgggct 60
 aggagccttg tgagatttca tgctcatgag agcatgcttg atttcctcct ttgtgactgg 120
 ggcagtgagg gcttccttag cttcttggct aaacataaga acattacgaa tatgaatgac 180
 aacctcaaag gagttgtggg gaaggcaaaa gagattctag aagtaggatt aagcctctgc 240
 cttcaagatg tttgcatccg agcaccaggt gccatcatcg agcttttagat tgtgaataat 300
 gttacgatgc ctacgcacaa tagtttgagt gtgaaaaaac ttagtggttg ggtagcccg 360
 tctgatccag tcctcacac 379

<210> 27685
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27685

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 aaaatgcaaa aaaggatgac cctagggctg caaatcgtc aatcccgtgg gtatggcttt 120
 tgaaaggggg gaaaagaagt ttttgaatgt aaaaacgccc cccctttcgt catttttata 180
 atttggtgca cgggtggctc gccagggcga gctaacctgc actttntttt tttttttttt 240
 tttttttttt gaggggaaca ttaaccatgt cccctcctt ctcattgatt agcattttgc 300
 ctaacttgaa ctacttagg gtaaaattaa gcgttgatta cttattntat tattaccctt 360

ttcctttnta aacaaacaaa tagtaaaaga aagctgcaa

399

<210> 27686
<211> 421
<212> DNA
<213> Glycine max

<400> 27686

tcatcctcag atccctcttg ttgggctttg cttaatttag atagccctcc taggtttaga 60
ctaacttaaa ctaagcttca tcctcagatc cctcttggtg gactagactt agcttaaata 120
gcttacgaaa gtgtcatacc ctaatttcgt ccgggggatta ttatttgatg atatacaacc 180
tttgattggc cgcttcgaga cacttggcgt ccttggttgc acaatgaatg aagccccgag 240
acgtgtcaaa aatcaaaagg aagcaagctt gcgcaatccg tgaaatttcg taatgtggcg 300
gaaatcgaaa agaggtggtt ttgcgcaatg cgtgagtttc cgtaacttct tcgagagctc 360
agagagagta aatacataat gcgtgaggat tcgtaacctt gcggaaggaa aataagtatc 420
g 421

<210> 27687
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27687

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agccacnaga gtcgaccngc aggcangcan gctcgnttat ccaaggcnca acnngagggc 120
gaagctccng gcgccaaggc ccacccccca cnggaaggcg ccggcgcnaa ccncaacacc 180
caaggcaacc gcagcacccc caaggcggaa aancaccanc aaaagacccc acnaaagcac 240
aaagagccag ccnccaaaga agcnccacaa gcaagcagac atcaagccgg aancaaagca 300
caagagcggc aaagaggcgc cccggaaacc accaggaagg gcccggcaca ccaacaaaac 360
aacgagggcc accaaacaac gccacggagg gccacacacg cccggcgcca aangccggca 420
acaagaggca agaaagcccc caccggggag acgagcaaca agagcgagaa ncgagaccca 480
cggcncagag 490

<210> 27688
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 27688

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tgccctgtccg atgcagcagt aatgatggcc cgagttatgt tgggtaacgg ttacgaaccc 60
ggaatggggtt taggcaaaga caacggcgcc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atggtttagg ctataagccc actcaggcag atgtaaagag aagcatcgcg 180
ggaaggaaga gtgggggtca aggctcgtgg ttgagacaag aaagtgaagg aagcccgccc 240
tgccacataa gtagaagctt tataagcgcg ggtctgggag acgaagggtca agtggtcgcg 300
atatacgagg atgatgttcc gagtacattg gatttggtag gaccatgccc tcctgatttc 360
cagctgggaa attgggagtg gaggaacgcc ccgacattta cgcagcgagc ataatgtaaa 420
ccttta 426

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<210> 27689
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 27689

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taagtcttga ggctcaacct aaacaaccta ataacaccaa gcaagcatgc aataacacta 60
actacatagt acccaaacat taaattaaca agaaatcaaa gcaacaaact gaaagaagca 120
aataattact caaacatgtc ttctacccta gggttttgca taaacagaaa ttaagaagag 180
aagagaagac ttacttgga tgaagataat ggatgaggaa tgcaatgcta ataggaggt 240
aatgataagg acagaggtag aaatgtgcaa ttatagtgat gaaacaaaaa gtaattgcct 300
taagcaatta tgttctcttt ttaaatttac gagttgcttg gtaagcgaga gtgtcacgct 360
aagcgagcac tctgtgacat ttgagttttc aaaatttaaa accacgtg 408

```

<210> 27690
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27690

tacttaaaga ttcaaatcca gtttttctgt tgatctatgt gttcattcgg tgatgtgcta 60
ctagtccctt gctttgctca caaaaaagaa gaaaagaaat caaaatcaaa atcaacctca 120
tccatcccaa gaggggaaat aataataatt attgaaaaag aacacgcaat atattattct 180
ttattcttaa taataataat tcttaaattt gaaaaaacat ttctgtccac acctccaagt 240
tgctacaatc caacaaaaca tacaaagctg gttgttcttt atgtttctac aacctctttc 300
tttcattccc atttccttgc aaaaggaacc atcatacata gttacatacc atgagtatct 360
ncaccactac caccaccctt ctcttctgct tcaaccacta cttcacaag 409

<210> 27691
<211> 332
<212> DNA
<213> Glycine max

<400> 27691

atcttcttat gatgcaaatg agtttgtagc tacctcatgc actcctctaa tgactatagc 60
atcatttctg gcgctaaact gctgggagtt ggaagccatc tcctcaatta aatttctggc 120
ttcagcagga gtcattgtct caagggctcc accactagca gcattctatca tactcctctc 180
catattactg agtccttcat aaaaatattg gagaagaagt tgctccgaaa tcggatgggtg 240
agggcaactg gcacatagtt ttttaaattc ctcccagtat tcatataggc tccctccact 300
gagttgtata atacctgaga tctccttctt ga 332

<210> 27692
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27692

ntgccgattt agtgttcgct ggagaaagga tcgatgtggg tctgagaaga ggcaaatttg 60
attatcctgc tttgatgaat aggaagccta cggaatgg agagaataag aaggagggag 120
gaacccatgt tgtcatttcc gttcctacat gaccaaattt cccaccagct caacaatatc 180
aatacttagc caatataagc ctttcttatt acccaccacc ctatcagcca agaacaccta 240
atcatccaca aaggccaccc ctaaatacag cacaaaaccc gcctgctgca catctgatac 300
caaacaccac ccttaacacg aaccaaaca ccaaccaggg aaggaatttt ccagaanaga 360

agcctgtaga attcacccca attctggtgt cgtatgttaa cttactccca tatctactca 420
ataa 424

<210> 27693
<211> 399
<212> DNA
<213> Glycine max

<400> 27693

tcagtcttac acctctcatt cttattactt tttcaatatt gaaaaagtca taacaatgaa 60
aaatgaaaag gtogtcttat tcaaaacccc aaccaattat gaaatcccct atctcccact 120
tcacacctcg gaacgcaccg ttcttataga gagaggcgct ttcacatctt cttaggctgg 180
ggagaggaaa tgttcccatt ttttaggata ctccggggaa cagatatcca gtggagatga 240
cgggggtgggg cctgtagctc agaggattag agcacgtggc tacgaaccac ggtgtcgggg 300
gttcgaatcc ctctcgccc acaaccggcc aaaaaaggga aggatctttc cctctgtggg 360
taggacaatc atgatcgggc tagcggaccc aaagctatg 399

<210> 27694
<211> 185
<212> DNA
<213> Glycine max

<400> 27694

cgatgggtcat acaaatttat tgacgaattg gaacaactgg agggaaaaaa tgaagcagag 60
aattatcaca ttctgtctag aaaagccaaa cgtgtagtaa ttccgactaa taaatctaaa 120
ttttgtaaga tgtacgatac ttatgatcct acaggagata ctgataacgc tgaagaaaaa 180
aaaat 185

<210> 27695
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27695

agcttgctca ctgttgcatt ctccanatat cttgtgcata ttggcgaact tctgaggctc 60

ttttggaggg aaatatgggg agaaaaatgca atccatcatg catttttctta agaacttgca 120
 ggcatcacia ggagagtttag agtagctaga tgaggccatg atctttactg caattataacc 180
 aactatgaat caagcacgta caataaaaca atttactctc aaatggttga ataagtgtt 240
 acgatagatt ataggaacaa ttgactaatg ctcacagaaa catattgatc ttctttaata 300
 tttatataag caataaggaa ataattcatt atagagagta caaattgaat ggtactctaa 360
 ttcatgagta caacgtttta gataacatta aaatcaaaat acattac 407

<210> 27696
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 27696

cggaaaagct ctgtcagctt cttcattcct tgaaattgat ccttgtctag taaggcgggt 60
 agaggagcag ctaaggacgc gtaccctta atgaaacgac gacagaaccc cgataatccc 120
 aagaaccctc gtagggcaca cgtattccga ggagtaggcc attgttgac cgcggttacc 180
 ttgcgcggaa ctggttccac cttttttttc gataccaagt ggcccagata ttccacttgc 240
 tgagttgcga aagagcacat tgataacttc atgacaaagc tatggtcagc taagacttgc 300
 aatatctttc gcaggtgtc aaggtgggtc gagaaggctc gactataaat caaaatatcg 360
 tcgaagaaga cgattacgaa tttatgcata tacgggtcca aggtctgatt catagt 416

<210> 27697
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 27697

atttcgtttt aatgtggctc tggaccaata tacaaggatg taaagaatac tggatcctg 60
 aactttcttct attttccttt aaaactttct aaatatagca gaagattatt tttcacggaa 120
 cattgataga tgggaaagtg atagctgtga aaaggctttc aaagaagtcc aaacaagggc 180
 tggatgagtt aaaaaatgag gtggcactga ttgccaaact tcagcaccgt aatcttgtaa 240
 agcttcttgg ctgctgcatt gaacgagaag aaaatatgtt aatttatgaa tacatgcccc 300
 acctcagctg ggactggctt tcttttggtt ggaccctta cgattttatt ctaaacaatct 360

tagataatca gcatattgcg tatttgtagc ttatacactt acagcg

406

<210> 27698

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27698

tacttaattn gatcacataa aataaaatcc ccaacttata aaatctaata taattgnctt 60
ataatattag cccacattaa ttattggaat agaaaattcc aacaatctcc tacttgggct 120
acatattgta acaattatat caaaaatcct taaccgtgca tctatatgct atttatcttt 180
agagttccac cttaacaacc tgggtccatct catgtattaa taatggaatc gttgcgctt 240
tcgtcactgc aacaaatgta actagacccc aatgaccatc acatcaatac actcaatgac 300
ataggtcaat atagataagc gggctcatac ttaacccatg agctcataat ataccctacg 360
gctcatgaga attctagggc cttcccttgg atctctggcc caatctactt ggagctcttt 420
atccaatgcc ctt 433

<210> 27699

<211> 405

<212> DNA

<213> Glycine max

<400> 27699

agtcttttga ttctggaatc atttatccta tcttcgacag ccaatgggtg agtcccgtcc 60
aggtagtcac taagaaaacc ggcctcactg tcataaaaaa ttagaaggaa gagctgattc 120
ctactcgggt gcagaacatt tagagagtct gaattgacta taggaggctg aaccaggtta 180
ccaaaaagga ccattttcca ctgccattca ttgaccggat gcttgaatgc ttggcaggat 240
tatataggcg ctttataaga gatttttagca gagtagccct tccactatct aacttgttgc 300
aaaaggagat ggagtttgac tttaatgata aatgcaaaga ggaactgact accacccta 360
tcattcaggc acctgattgg acagcccat ttgagctaata gtgcg 405

<210> 27700

<211> 425

<212> DNA

<213> Glycine max

<400> 27700

tgagatgagg aagtgtagaa ggggtgaaact tctactttt attctttgac catagagtgg 60
tacctggaga tatgtcgtgg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120
cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcagtca gtgagaacct 180
gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240
gagcaaggag gcttgtgggtg gctggccagc tgtgaactat gatcgatatg tgggttatgg 300
cctctggtaa tcgattacca aggggtgggtg atcgattaca aggcttataa atgaagacag 360
gagactaaga tgggtctctgg taatcgatta ccaggggggtg taatcgatta tcaggcttag 420
aaatg 425

<210> 27701

<211> 167

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27701

cggatatttca caccgcatat ggtgcactct cagtacaatc tgctctgatg ccgcatagtt 60
aagccagccc cgacacccgc caacacccgc tgacgcgaac cccttgcggn cgcattaata 120
taacttttga tcatgtatgc taaaccaagt atttccgaga gctcacg 167

<210> 27702

<211> 407

<212> DNA

<213> Glycine max

<400> 27702

ccatcaaagt gttatcgatt acacctcaac agatgtgact cttcatattt aaattttgaa 60
aatcaaaacg tttagaaact ctggtaatcg attacaagta ttgtgtaatt gattacacaa 120
gttaaaaatg atttgaaaat attttatcac tagttgtgac tcttgaaatt tgaaatctaa 180
cgtttttaaa cattggtaat cgattacatg attatggtaa ttgattacaa ctttgtaa 240
cagttttgaa aataatgctg gctattggta attgattact accttctggg aatcgattac 300
catagagtaa aactctttgg aaaagatttg tgaaaaattc ttgtgctact aatgttttga 360

aaaacctttc tagtacttat ccttattgag tcttctcttg attcttg

407

<210> 27703
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27703

tactaagcta gtaatgctct ntaatgtcgt atggtaatgt catgtttttt catttgtaat 60
taactctatt taaccgtttc aaaaaacttt attcaattat atcttaatat aattaatgcc 120
attaataatt attttaacgt aacagaggaa tttaaaaggt aaggctatta atactctaata 180
atttctattc acatttacca ttttttttct tttttctttt tttttttaac atatcattat 240
tattggagat tgattgaaac aaagaatgaa acttcgaact taattatcga catttcagt 300
aaaacaaatc cgttactcat attgagtgtg attccaaagg ttgaaattga agtaaaaaaa 360
caaagagagt aatacacaca attacaaatc anatcgagaa ggtgaaagat aacaattatc 420
taggaggata aaaaattatg 440

<210> 27704
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27704

tagcttcagc ttcactagtt gtctcaggag ttttcttata ggtagaatag atataccgag 60
tagaaattcc agcagaaaga atcaggcgag cagcaggagc atccgcttcc accgcggaaa 120
cctccaatcc atttatcaaa gctgtggcaa caacaagtgg tgagtgtttt cagaatttag 180
aaaacaagtt attggataaa agatgttttc aattacacaa gatatgctag tgatgatatg 240
gcacatcaag tatgcaaaag ctttccagaa tcaagatagc caaaaaaaaa acctacaata 300
ataatagaga aacctggtat ttaggtctca aagatgcata gttcatcaag attaaacgct 360
tatttaacat ttgaccagc tgtcttaggt tntacttctc tttaa 405

<210> 27705
<211> 392
<212> DNA

<213> Glycine max

<400> 27705

tcactagctt ttgctagttc tatcatctca aaatacatag tggactgagc taagatagtc 60
tgttttctttg acttccaaga aacagcccca ccagggtatgc taaatatata gctgctggtt 120
gcttttgaat catctgaaag agtgttccaa totgcatcga tgtatccttc aagtacagcg 180
ggaaaaccttt tataatgtaa tccaagattt atgggttctta taagggtacct cattaccctt 240
tcaatagcgt gtcagtgtc cactactaggt ctactggtaa acctgcataa taatcccaca 300
acataagcta tgtcgggtct agtacaatca gtggcatacc taagggtgcc aatgatactt 360
gcttactcag tttgccgtat accttcacca gt 392

<210> 27706

<211> 402

<212> DNA

<213> Glycine max

<400> 27706

agtttgtatg agatacattc tcccccttc tcaagcaaat tcttaatgct tcttgacatc 60
atcaaaaatct tcatgatata cattctcccc cttgttgatg atgacaacca cctgtaggtt 120
atgagcaaca acaaagacaa tatgtatctg catatagttt actacctctt ggttctacaa 180
tgattgctta tatgagacaa ttgaagattt catatctttc atatataaaa agttgtctca 240
taaaacaata gataatcctt cttactatct tatcttttat ctttctctaa cactttgtca 300
acatcaaaaa caaatcatga ctagagagga gaataccact tgttggaatg tatgagagta 360
agtgatacca ataggcatta taacaatcat tcaatattaa tc 402

<210> 27707

<211> 416

<212> DNA

<213> Glycine max

<400> 27707

tagatcttga actcaattat agcatcatgg atgcctttta aatattacac tgccagttca 60
aggccacgga cttttgatat caagttgatc tgattagcaa tgtttcccgg agacaactca 120
tagttccttt cattgctcat ccactccaac acctaacaga gaccatatat ccttgactct 180

agatgataag ggctcaagcg caatatcacc aactatgtaa ctaaaagcat atttccatga 240
ctctatatatt tatagggatc aaatgcgata caggagacat aatgtgtgtt tgggccgcag 300
tggcaccaca aaaatcacat ttacataga aatctggaag atacaatgag aggcattggcc 360
atgaacacta ataataattg cgtctctttc accgcgccac aaaaccagac aacta 416

<210> 27708
<211> 349
<212> DNA
<213> Glycine max

<400> 27708

ttagtcttgt tcttgttatt taactcatgc atgccacact cgggtggttac ttcccgttcg 60
tcatgtcttct atcaggcttg gcatacctga ttccaaaatt tggacagtgg ttccgtctac 120
atctaggccg cggatcactc agacagtctg tacatgctac tggatgctga cccgcgccga 180
ctgtctggga ccttgtcaag ggccagtgtc tagacagcat ggcttgtaag cgctgccatc 240
gcgttaagac tcttgatctg aaccgttgtg tgcccaacac tgtccctaac tatcttgctc 300
atagatgaca tggcaaatac ctgtcatggg ggacgcagtc atatactga 349

<210> 27709
<211> 375
<212> DNA
<213> Glycine max

<400> 27709

gctgtccatc gagattgaac tgagctcttc gtcttttgat tagccagcgg atattgtgac 60
taagtcttta agaggacca ccattccgac tatatgtacc aagctgggcg catatgatct 120
atatgtcca tctcgatggg gagtgatgaa tattcttgca atttaaccat gtttggcaac 180
ttatttggca gccttcttct gaatgctata ttgcattgtc actatcctat gcgatctgct 240
ctctgtgtat gtctatatct atctttcgca ctctatatat atatgtagaa ggactgagaa 300
gtcatgtcac atacctaaat gcttccagtg aactcaactc ggacatctga gggctgattg 360
tgcatatctt tagag 375

<210> 27710
<211> 402
<212> DNA

<213> Glycine max

<400> 27710

atctagttct taaagaaaac ttgaagcagg gctttgtttg tcgaagcaat cttgtattaa 60
tcttgaagca atgcttatcc tttgaagcag ccttgaatga ttcttttttg gcatcatcaa 120
catcatgtat acatacattc acagattaca tacttgaata ctacttcgat cactcagtaa 180
ctataaaagt tacgtcattt gaatcatgga agatccaaat agacacctgc taaatagaaa 240
caatagagga agggagatag agagagattc tattatgaaa atatcagaat gaactaagag 300
ttgatacaat gacattacaa gctctttaga taaagctgag attacaatta agtcttgtgc 360
ctcagttgat atctgctgca acaaacgtat aattcactca ct 402

<210> 27711

<211> 405

<212> DNA

<213> Glycine max

<400> 27711

tagaagggga ctttatttta tttttgaata tgaataacat aagatttgca cgaattcaaa 60
cataaaatca ttccaaacat agaaataaca ttaaattaac ttcagcagag tcgaaagaaa 120
tagaattagc atcaaatagc acaactaagt gatgctaatt ttgtgacaag gacatattat 180
cttcatttc gatgacatgc ttactaaaaa caggtaaaat ttctattggc ccaaattttt 240
tccagtagtt agaatacact aacaccttga acacatcatc gctggttctc agttgaataa 300
tttcgaattt gataattggt tctaaatact catagtgact tggttgcaaa aaaacaatcg 360
ccttaccgtt tgtgtttaat gaataccata aggtggaatc ccatg 405

<210> 27712

<211> 197

<212> DNA

<213> Glycine max

<400> 27712

gttgtgagtt actaagccaa ggatgagagt gatgacgtat tgcaagtttc gagtagcaga 60
ttacatctgg gaacaatgaa ttgaatatat atgatgacta gctgaggatc acgctattcg 120
aaaattaacg ggggatcaca ctggtatatg agaacatgaa tatagaaaaa gattacatct 180

tcgacataca gcatatg

197

<210> 27713
<211> 173
<212> DNA
<213> Glycine max

<400> 27713

cacacgttgt acttttgttc gcaccggcga tggcgcgcat catacattcc acgtactcaa 60
cgcgcgcata aaccacccat tcaactgttc ccaagtcac cagagctcac gtactccac 120
gtatcccata tgctcgtatc tcgcagcacc gttaccacat catatgtggc agg 173

<210> 27714
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27714

agtcttaagc ccgagggtcaa accacgaatt gaccaatcat gtcccttgtc ccgcttcagc 60
tttctccctc ttttccgaat caaaaccccc caaaaagtac taagaaaaaa taaaataaaa 120
aacagagaaa cttaaaccac agattcaatt caaatcccgt cctcttcatt tcagatctca 180
taaagaacac gaaacagtgt aaaacacgcg ctctctcttt ctcttgaact ttcttcttcc 240
ttttcgtttt ctcaactctc tgttcttcat tcacccccac acattattct tagggtttcc 300
aacattntct ccatttccct ttattttttc atttttataa ttttcgaatt cgggtgttga 360
attgagaaaag cggtttagac gattccgatg t 391

<210> 27715
<211> 391
<212> DNA
<213> Glycine max

<400> 27715

gttatgcaag aagcgtcttc taggcattct ccaaataatca aataatatta gatagtacct 60
gagccaaata gcccccaat gctgggccaat tgatcaaacc tatgccccaa gctgcgctga 120
cctaaaatca aatctcactt tcgattatta ttatggaaat gtagttctaa aatctactac 180
tataacagag gtggtgatgc ttacagttga gagtcctata ccttggtgtt cttgtcgaaa 240

aagttcatag gcataggcct gttaaataga ggagttaggc acacagaagc ttaaattggaa 300
 gcgtgaaagc gatcgaacag ttatatattc aattgtgcac acacattcaa gacttgtatt 360
 ctgaaacatg agagtgctaa ctttgatacc t 391

<210> 27716
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27716

agtttccatg ttttaattacg agcgtgtcga tatactacgg gacacaatca gacatccgag 60
 tccaaagcta ttgtcgtttg acttttctta gagctatcgt tttcgatttc gagcgtctcg 120
 atatattata gggctcaatc ggacatccga gttaaagat attgccgctt gactattctt 180
 agagattccg ttatcaatct cgagagtctc gatataattac agggctcaat cgaacatccg 240
 agttaaaagt tattgtcgtt agatttttct cagagcttcc gttttcaatt acgagcgtct 300
 cgatatacta cgcgacacaa tcggacatcc gagtanaag ttattgtcgt gtgactcttc 360
 ttatagctgc cgctttcaat ctgagcgtc tcgatatt 398

<210> 27717
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27717

tgcttgagca aattcaaagc actataactt ttgattctta tgtccgattg tgtcccgtat 60
 tatatcgaga tgctcgtaat tgaaaataga agctctgagc caattcaaac gacaataact 120
 tttgactcag atgtccgatt gtgtcccgtg gtatatcgag acgctcgaaa ttgaaaactg 180
 aagctctgag aaaaatctaa cgacaataac tttttactcg gatgtccgac tatgtcccga 240
 aatacatgga gacgctcgta attgagaact gaagctgtga gcgaattcca acgacaataa 300
 ctttagactc ggatgtccga tngagtcccg aaatatatct agacgctcgt aattgaaaac 360
 agaagctctg agaaaa 376

<210> 27718
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27718

tatcaagcaa gcttcagtgt tagcgacaaa aggaatgtgc acaatcttaa cctcttgaaa 60
 tttcattttg cctctattat gtttgaattg ctaacattta aatttaagat aaggacataa 120
 agaaaggaat gaacaaagga tattcctctt gggtcacttc ctcaaaaaga agatacaaat 180
 gcagntgttt gtactttttt tgttgttgtc tgactctgct attcctctct ctaaccaaag 240
 catgccatgt tgctctatgc ctagatgtga gacaacgggc atatcaagaa agcgagcatg 300
 gatcccacaa cggatacttc actaaagtct atataaataa agactcaagt tataaagtga 360
 agtaaagaag tgaaatatga agtgaagcat caaagtgaaa gaattgttnt ctacaagtca 420
 ttggacaata cattcta 437

<210> 27719
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27719

atcttgtctt tattgggttt gtgaattgct tcctctcatc attctcttgt tttgcttaag 60
 agtgcgtttg tttcactgaa taaccattca tttgtttatt tgtagttctc tttttactat 120
 aaaaaaattg agttttttta tgtgtgtgtg tgtgggcgcg cgttttatct tggccatctc 180
 attatctcca actccccctc aagccgaaga cctgatacta atagcgtgaa ttttgcaaga 240
 ctggacatta ataataatca ctatgataga ctctgatacc atcttaagaa ttggatttaa 300
 gtctaactta atcccaaaag ctagctttat gaaagcaggg tgtctcctac ttctgtacaa 360
 tattntggcc ggatcactag tcaat 385

<210> 27720
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27720

nttatgtggg atacccaatg taagcatagt ttccagttca ttattgtaaa attgacaacc 60
gctctagtgt tagttttgcc taacccgaga gaacccttg aggtgtattg tgatgcatca 120
aagatggggt taggaggagt gttaatgcaa agtgaccaag tagtggccta tgcttctaga 180
caactcaaga ctcatgagaa gaattatccc acccatgac tggagttggc tgttgtgatt 240
tttgccctta atatgtggag gcattacctg ttgggctcca agttttatgt gtttagtgat 300
cataagagca tgaagtactt gtttagttag aaagagccga acatgctca aaggaaatgg 360
ttagagtttc gtaaggatta tgactttgag cttagctacc atcccggcaa agccaatgta 420
ttggttgatg ccttaa 436

<210> 27721

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27721

gggatgcgag cttttgctat ttgatatatg aatcacttgt gtgaccactc tccccaccat 60
gccctgttta gcctcttttt gtgcttcttc ttcaagttaa aagaaatacc atgcaccagg 120
atacctactc gttttccacc ttgtctgctg attaacaatga tgggcgcttg ctgatgacac 180
taggatatga ctgttcaatt accctagcac tcggattccc tctaatatct tatctctgta 240
gcttcttcat cgccccctta ttgttggtac ctgccaactc agtcttgcta ttatcgtcta 300
ctgttttggc aaattctggc gtgttaaccc attactctgg atttccaatg aatatcttat 360
gtaaggtgag acccattatc ttagcatatn tcacacca 398

<210> 27722

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27722

tccaacttat gagctaaaac aaacaagggt gttctctctt tcaagtgtgt gcttagaaaa 60
atcagagaga caaaagggtg agcttattga gagagagaga gttagtaata aaatatagta 120

gtaaataatt ctaaaaagtt gcttttgcac gcgtgtggaa taaaataaag caagacaaat 180
 agaaaattct gatactgttg ttaggtgata tttatgcttg gcggctcacg ttttattccg 240
 accttaggga tataactaaat ttacggaaa ccataagggtt gttttaatgt ggtaattatt 300
 cttggagatt aatgtgtatt atgggctttt atattatagc tacaactttc tataaatatt 360
 aaagtgtat tcgtatctcc ttctttactt anagcacctt ttctttcttt cttcttaaatt 420
 cttttttaat t 431

<210> 27723
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27723

agctntgttt atattggcta ttaaatgcac ctgaaattga gaaaagaaaa atgtgggttaa 60
 acaatgtaat actatggatc atgactatat atcctattca attatgcttt atcttaattt 120
 ttatcaacca aacaattgaa taagttatct cttcactcca tcttcatcca ttccaccctc 180
 tgccaccatt ccaaagttag cctatatgat aaaatcctaa attctggctt ctttaaaaaa 240
 attaacatta tattcttcat ttgagcttgt taaattaatt tacacttaca tacatttttg 300
 gtccttgtga tttagctttt tcgctctttg tccttgcata ataaaaaatt gatggtactc 360
 cttacaattt atgtttttt 379

<210> 27724
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27724

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 gactcaatgg ttcttttgaa tcctttgtac catggatcca ttggcaccat tgtctcccca 120
 ctcaataaac gcctaacatt ggcaatgatt tcccttggat tataattggg aatgtaagaa 180
 ctgcagtcta tccaattcg ttgactacca ttgacaagaa ccaatgggtat tactgggtatg 240
 tacctgtaag gccagacaac aaaaattatg ttttaaggac acatgcaaatt gcagtagaaa 300

agacaaacag actctatcaa ctgaaaaact gtgtntgaat accatacaca aacaagggct 360
aaattgtaga tgtttcactc tcaaccgcac catcaaagat actgacaaaa acatgttgat 420
g 421

<210> 27725
<211> 410
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27725

agctttcata agtgaaatca ggtgcagcca tctccctaag agtcctctca cgaggtggag 60
gttgagccat gttctcagta tgaaaattag tagtggaatg ctcaaaatca gaatattcag 120
aatcaccctc aacagaatgc tcagaatact caaaatgcac agaatgcaca ctatgcctaa 180
ctaacttatg aaaggttcta tctatttcac gatcaaaggg ttgtaaatca cctggattgc 240
ccctagtcac gcactatatg caacaaatag tgtgtttctc aacaagcacc taacaagggg 300
gtaaaactac gactatactc aaacgatatc aaaatgagct gaaattntgt taggaacacc 360
ctaagatcat gaaaagatag cacanaanat aggacaataa tacttgaaaa 410

<210> 27726
<211> 429
<212> DNA
<213> Glycine max
<400> 27726

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ttgtatccat gctagtgtgc tatcatggat tccctctgaa ataattattg ttctctaaat 120
ctctcccttt atgtagaggt gctatcatgg attcaacatt atgttactgt gctatcgtgt 180
caaatactgt caggagtcca acatcgcatt gaaaaagaaa cttactgtgt cacttaagcc 240
atgatgctta cccacctatt ggactagtta atcgggctgg gctctcctct ggtgcgtaaa 300
tcacaacaag tggagttact gttgagagtc acgatatgca aatgagtctc tcatctcttg 360
caggcttgct attgtgaata ctatgccacc aaaagatacc ttatactatg ttgagtagac 420
aaagacatt 429

<210> 27727
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27727

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 gcgactgggc cctttcttcc cttcacaact tgagttcatt attgctaccc catagagctc 120
 cgcgaaattt gttccggcca tactcttctt tgcgagccct cttgggtctt tgttcaaggg 180
 ctcttgccgt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
 cagccaactt gaacttctcc ttggcgagtt ntgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact ttaacttgg 360
 cgagccaatc taaacctcgt atgcgaactt tc 392

<210> 27728
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 27728

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 gagctagaaa gatcttataa gaaagtcaca aaccacttct ataaacccat gtaagcactt 120
 ctaaagtccc tccagatctg agattattgc agtgggattt tgtttttcaa aatttctctt 180
 gatectattt ccagatgtat tagaatctcc tgcttgctt gctttagaat gtcgaattca 240
 aacagttatt aatgaattag tatctaaaat ggtattattt tctgcacaca tgggcggtga 300
 attgcattga tgtcaggcat gtaactttaa agggttttta tgagagaacc aaggatcatc 360
 ccatttatag tactctaatt ttggagcagt ataagtgaat ctttctgcat tggaattgac 420
 act 423

<210> 27729
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 27729

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acgatatttg acctatgact agattcaacc tatttctttg gacttttcta tgaatcctaa 120
atggataatg atgtcataaa attaaggtaa tgttttagtt ggagttttaa cataagaaca 180
ttgtcttatt actattaaac aacaataaat acctcatggg atacaagttt cacgtgatgt 240
gttgggccatg caacaaaact gtcaagggtc tgccctcacat attgaatctt ggacgtcgga 300
aatggaactt cagcattacc gtcataaact ttgtgaacac tcaccttcac cacatcatct 360
ccataaggca cactgtgtat ggtggaagcc ccttcaaata ctt 403

<210> 27730
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27730

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aacaacaccg cacttgaaga cttatctact tcgctaaaac ctgtaaatta gcaacacttg 120
gatatcatgc aatgcaagat tacaacgcgc gtcgtgaaat tcaatagcta gaaaaagcca 180
tacatcgcca cgtacatatt gataactagaa agttctactg aacacatcac ttatcctctt 240
tactaaaacc agttaaacaa cactttaaaa cgggtgcaata cgtcaaagat taaagcatga 300
gtgacttcga aagcacagct ggaaagaacc ttgaaattcg atgaagtggg cacacaaaat 360
attaatggaa tcaacaaaaa cttgactgca ctctaattag ctaanactag ttatgcaaca 420
ac 422

<210> 27731
<211> 396
<212> DNA
<213> Glycine max
<400> 27731

atcttgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60
aatatgcacc tgtcgccaga ctctgtggtt tatgctcttc tgccgaccac cacacggacc 120
tttgcccttc tgtgcaacaa tctgaagcaa ttgaacagcc tgaagcttat gctgcaaaca 180
tctacaacaa acatcctcaa cctcaacagc aaaatccgcc acaacaaaat agttatgacc 240

tctccagcaa caggtacaat cccggatgga ggaatcatcc caaccttaga tgggtcaaadc 300
 cttcacaaac gcagcagcaa caacaacaac cttatttttaa aatgttgctg gccaagcag 360
 accatacatt ccaccaccaa tccagcaaca acaaca 396

<210> 27732
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27732

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 ccattaaagt ttttcagaaa aaaccagagg aaagaaagcc taggggacaa agatgttcta 120
 tctgcaatca gtcaagacac ttgcggaatg caaagaattg tccaagaaa ttagaaaagg 180
 tegtcaagct aattttctcat cttcagattg gtgaatatga tgatatagaa tctatgtatt 240
 cagaacagag cgatctacat gaagaaactg agtcggccat agatcaaata gattcttctg 300
 atgaagtgtc ttcaacttct cctatacnca tcttctctat ccaagaagag ccgtctatag 360
 ggcttgcaat tctcaaccc tgcgttgaga ttcaagtgtc agcatacaag atcgaaatac 420
 ctat 424

<210> 27733
 <211> 235
 <212> DNA
 <213> Glycine max
 <400> 27733

tgctagtttg ttacgcacac cgccactatg cttatgcaca ctttccttcg aatatagctg 60
 agcatgcttg tgcgctcaca cccttgaagt agcgtaaagc taaccccgct actgcacttg 120
 actcaactcc ctggctgcct cttcagagac tagctgtaag gtaatcgac cctgtgcgct 180
 aagccttact gccataatga tgaagctgaa ctgaccgcac catgctacac ctatc 235

<210> 27734
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 27734

tcttagtctc agatgatgca ggtgagtttg tagctactct catgctctcc tctaaagact 60
atagcataat ttctggcgct aaactgctga gagctggaag ccatcttgtc aatcgaattt 120
ccggcatcag caggagtcac gtttccaagg gctccaccac tggcatcata tatcatactt 180
ctgtccatat tactgagtgc ttcataaaaa tattagagaa caagctgctc cgaaatcaga 240
tggtgagggc aactggcaca tagttgttta aatctctccc agtactcata caagctctct 300
ccactgatgt gactaatacc tgagatatcc tttctgatgg ctgcgcgcct agaagcaggg 360
acatcttttt ctaagaatac tctcttaagg tcatcccagc tcgtgatgga ccatgg 416

<210> 27735

<211> 399

<212> DNA

<213> Glycine max

<400> 27735

tgctttgctg ctattcetta agaaagggtc agacactttt ccctacttct gggagcagaa 60
caaaataatt tttgttttaa gagtttttct gacaatattg aatcttgatg ttctgactga 120
agattaaggc tagatctgcc tgaatttcaa gtagtcaagt tcccttgagc attttagatg 180
tttcatcttt tctctagttt cttgtacgta taccaatgtg tgtctgaatt ttgtcttgcc 240
accaggaatt gcaattaagt aagtttttgt ttttagtttg taattttctca tgcattgtag 300
agtggctact gtaattgaga agtttgcagg gctcatctcg agtttagatt ataacttgat 360
gatgcttgga cattataact cgtagaataa tataacatg 399

<210> 27736

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27736

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agcattgaaa ttnttctctg agcttctact aatcataagc aatagatttg aaaagagatc 120
aaagcctttc aagcattctt tcacatctat ttctctagga tgacactgta ggttcaacta 180
caattagagg ctggcttaat tccgagaggg ttaattcatg aacgaaacta caccttagac 240

attctctgac aatgggtgat ccgaagactt tgcattgtta tgttcagtgg agattttttg 300
caggatatag caaataatgt tggcacagga agatgtcatc aaagaagata gacacctgcc 360
attgataagt tacctcaatc tttaaagaag acagacactc tatctttgaa gaagttacct 420
caatct 426

<210> 27737
<211> 380
<212> DNA
<213> Glycine max

<400> 27737

agtttagaga gagtcatagc agaatacctg gttcactggg tcttacgcat gcgcccgagc 60
agatctaaaa gatacttgat gacaagggtg aaccaaggat actcattgga tatcatgcaa 120
ctgggtgccta cacactatat gatgctagaa taatgatgat cgtgattagc aaagacgtgt 180
cgatagagag aaacaaaagt gtgcaattag aaaataaatg tagttgacta tggtgaaaga 240
aaggagatgt gtaccttgat gacaaacaaa gtgaagatga tgtaccatca tgtggagagc 300
aacacacatg gtcacaaaga gagacaccag taccatacac actcagagaa tatgaattgt 360
atcctgatac agcaatcact 380

<210> 27738
<211> 354
<212> DNA
<213> Glycine max

<400> 27738

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actggaacag accactcctt taacacacaa ttagaacaag tgaacgtctt cctctgctac 120
tagaatatgt gttagatatc attatcactg cattaaatac attctcatgg gcaagtgtgc 180
gagcccacag tataacatga tgatcagtaa ctaatacgta caacgaaact ctgacatatt 240
actttttata tgaaacgtac attcacacaa atgactcaaa ctaatgaaca tgattacctg 300
acaggtatta gaaacattcg aacaatcatg tggatcattc acagcacatt cttc 354

<210> 27739
<211> 393

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27739

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 atacttagct acacacacccc ctcaatagct aagctcacccc catgctaaaa tacatgaaaa 120
 tacaaaaagg tccctactac aaagactact cataatgccc tgaaatacaa ggctaaaacc 180
 ttatactact agaatggcca aaatacaagg ccaaaaagaa ggaaaaccta ttctaattatt 240
 tacaaagaag agtggaccta accttggccc atggggtcat aaatccacca tgaggttcat 300
 gagaacccta tggccttctt tagccgctct agcccaatcc tcttggagtc ttctagccaa 360
 tacccttgn ggggggtagg attgtatctc aag 393

<210> 27740
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 27740
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 tctaatact cctctgcggc ctccacataa ggcatagagg atgggcagct caccaagatg 120
 tcttctctgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180
 agtgtagagg gaacaactcc cactgagtgg atccacggac gcccacacag acagctgtag 240
 ggggggttaa tatccattat ttggaaggta acttggcatg tgtgagggcc tatttgtact 300
 gggagatcaa tctctcccct aacctctcgg cgggtgccgt cgaaggcata aaccaccatt 360
 gaactcggct ttatgtggga ggcattgaat ggtaatttct ccaaagtgc ct 412

<210> 27741
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 27741
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 aggttgagcc atgttctcag tatgaaaatt agtagttgaa tgttcaaat cagaatattt 120

agaaacacca gcaacaaaat acccataatg ctcaaaatgc acagaatgat caggatgcac 180
 actatgccta actaatctat gaaagggttct atctatttta ggatcaacgg gttgtaaata 240
 acctggatta cccctagtca tgcactatat gcagcaaata atgtgtttct catcaagcac 300
 ctaacaagtg ggtaaaacta caactatagt caaacaatat ccaaagagc ttaaattttg 360
 tgagcaacac ccttatatca tgatcagata gcac 394

<210> 27742
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 27742

gaaaccacg cttcggaaga tagtgatgat gtacaagccc taaacggctt atttgtttt 60
 agcccttttt gtcgaagaga agctcaggtc catagccatc aaagtctgaa aagactatga 120
 tgaactaagg gacgtcaata tggccacagc tgaagctttg gaacgagaaa cctagaatgc 180
 cccgacggaa taacacgacc aaagcaaagt tttgatgggc tttatatgtc agcaatatgt 240
 gagctcaagc tccgaaaagg tgaaacgaat catcacgggt cataggcatt gatttgaagg 300
 acgagcta 308

<210> 27743
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 27743

agctgacccc atgcgtggag acatggccat acaccaaggt cgctactatc aagactactc 60
 ctaacgtcct gaaataccag ggtaactgcg tagtctacta aaatgggcac tactcacggc 120
 caacacgtaa gaagacctat tatcatattt c 151

<210> 27744
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 27744

cgcccagaga acgaatacat gtgagaaatg cttactacct cgaaagacag cagagcggac 60

tctaatagact cctctgcggc ctccacataa cgcatacagg atggacacct caccaagatg 120
 acttcctcgc ctgataccat gaccagatgc cttccacta cgaattacaa cttccgggtgg 180
 agcgtagacg gaacaactcc cactgactgg atccacggac gcccacacag acaggtgctt 240
 ggcgggctaa tatccattac tagcaaggta acttgccatg tgtgaggccc tatttgctact 300
 gagagatcaa tctctccact aacctctcgg tgctgccgc 339

<210> 27745
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 27745

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 gggtacttcc tcgttgacat cttctgtctt gaatggaatt gccatgacag gtttggtgct 120
 actgtctttg atatttggtg attgatattg tgttggtgga ggtaattccg actggattaa 180
 ctcaccatcc ttcacttgcc aatttggtat gacatttggt gctggattac ctatgatgtc 240
 ttgtttccaa gggtagtcta tctctttct gatggcataa gcatgaaacc aattcaagaa 300
 aaggacatta attttgactc tttcgtacaa ttcgtagaac tctgcttgga tttgtttct 360
 gcttgaccct tgtaatg 377

<210> 27746
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 27746

actccgctgc actaccgcag tattgtatta gctctgggta tttgatttgg gtaatataga 60
 taggtacaag ggtgagcagg attttattac cacagattta tctattgaag ttgtatttat 120
 ttctctataa atactttaat ttatataaaa taattacgca tcatctttct tgtttttcgc 180
 actttagaac tccatacagc gtagcagtat tggtatgaga aaacatatta acatctgaat 240
 tgtaaacaat taaaaacatg tacacacgta tgaacttttt gcgtgaaagt atattgatat 300
 ttgaattgct aagatatata tatatatata tataactacta tatatatata tatattttaa 360
 ttgtccaacc tttctct 377

<210> 27747
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27747

tcangtatgt cgcccagctc gcccaggcga gcaagggtgc ttcctccata agaaacaacc 60
 ttctggagga atcttttggg gggcccaagt ggacctgggt gctatttaca cccccctttt 120
 tactaaatgc acccccttat atattgttct gcaattcttt ttccgtaacg ttacgaaact 180
 ttacgaatgt cgtaacgata cttattttcc tttccgcaag ggtacgaatg cttacggact 240
 tatgtattta ctctttttgg ctgtcaaaga atgtacggaa actcacggat tgcgcacaaa 300
 cacctctttt caatgtccgc cacattacgg aatttcacgg attacgcaa 349

<210> 27748
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 27748

agctttgttg gtgcgtagct caccatcttt tcatagtaga ataccggtaa tgtgtctact 60
 atcattatca tcattttttt ttctccgtca ttgagggtgcc acttgagctg ccaggctctt 120
 ccacctttgg gcgtattctt ttgaaagatt cgtgccacct ttttgacat gttctgtagt 180
 tgcacacctat ccgaagacat tatactgaca ctgcctaacg aaggcaatca ctaggtcctt 240
 ccaagaattg actcgggaag gttccaagtt agtgtgcaa gtaacagcta cccagtaag 300
 actttcttgg aaggaatgta tcagcaattc ctcatctttt gcgtatgcct ccatcttccg 360
 ataatacatc tttagatggg tcttggggca agtagtcc 398

<210> 27749
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27749

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aacaagaaca ctttaattga ttacttaagt catctaactg attaaattgt tcttgagttg 120
 ttttccagat gttggatgaa cactttaatc gattacttcg ataactaat caattacttc 180
 attgaaataa tcaattacct tatagattta atcgattaca aacggttata attatcttct 240
 ctataaataa ccagcttggtg ttcacatctt aacaatcaaa aaatcaagag atcattagag 300
 gataactcaat acatctcaaa aattacttct tagcctcaga atgagcaaga tntcatgctg 360
 tcattataac atgagaagag aataaaagag ctttatatgt atncacaact taatcttttg 420
 attt 424

<210> 27750
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27750

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 accccgaaga ggtctaaaaa cacttgggac cgccggtgga ggacaaaccg ctcatgacaa 120
 gctatatatc aaatccgacc caccctggag ttactcattt tgataaaacc ttggatcatc 180
 ctgctatcg acgcactcag accctcgact tatcaaggac actaagacac gagtcttggg 240
 ggtgacgatg gtgcctactg tgaatattgt gcccatctac atagcctcct gaccactgc 300
 catgatagat ccaaaatccc acctgatgat tatcactgcg gtcccattaa tcacctgata 360
 attctacccc tggcgaccn 379

<210> 27751
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27751

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 gtgggcacga gaattttggg atctcagtct tgcgagaca acagtcatga tctactccca 120
 gtgacacaac ggattatcgc atacaacggc taccagctg tcttgcaatg gctaatagaca 180
 ggacaagtaa tctactcttc tgctcataat atagccattg gtttgaacga gcacctgttg 240

cttcgaacgg aagcatatac acatcgcaat atcaaggcct gggagggcta ttacacttgc 300
 gaatctatgt gtgatcatga acattgtatc agtcgacttt tgctgcata tcatcaaact 360
 tgtgtgnctc ctcatTTaca gaccacaagc accctagagg ctggattaac accccatcat 420
 gatggagcgg cgtatgatat tgaagtTtgg atgctttgtc gacn 464

<210> 27752
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 27752

atcttgttca gcgtttatgc gagacagaga ccaacatggt agctatcatc gccaaagtacc 60
 aagaagagtt aggtctagcc acggcccacg agcatagaat cacggatgag tatgctcaag 120
 tgtatgcgga aaaagaggct agaggaaggg tgatcgactc tttacaccaa gaggcaacca 180
 tgtggatgga tcggtttTgct cttaccttga acggggagtca agaacttccc cgattgttag 240
 ccaaggccaa ggcgatggca gacacctact ccgccccga agagattcat gggcttctcg 300
 gctatcgTca gcatatgata gacttaatgg cccacataat tagaaatcgt atggaaattg 360
 tatggTctct cagaccttga ctggata 387

<210> 27753
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 27753

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 gccccacatt atttccatga cacaaatgca taaatgatga tttggaaact tcatgcaaaa 120
 ctggTcatgc atgcacctat gcagacactc aagtgtcaaa tttttatggT catgtgatgc 180
 tagggctcag gattcattta ctctatTTta gtcaacccaa tgTttccaaa atatgttgtt 240
 ttatacatTTt gtgcattcat ccaagaccat ttcaggcgTc cgggatgatt tcacagaatt 300
 cacccttcat gtgtacacac atTTTTTTTT gaaaaactag atatgatcaa tgattTTTTt 360
 ttcgcagaaa agTtggaact catatctTTt 390

<210> 27754

<211> 143
 <212> DNA
 <213> Glycine max

<400> 27754

tcagtttagtt tgttaacaaa gccaccggat atgtcttcgt ctgtaccact attagcctcc 60
 cttataacat ggatcccttg acaatgttga ctctggcatc accagacatc ctcacctgac 120
 catgccatcg agaacgccca cat 143

<210> 27755
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27755

atctttgtta tgccctctcc cctcgacgga gatttcttct tcggcaaagg cgagatagtt 60
 gttggcagtg atattattga ccagccctcc gaaacctttt accgagatgt cttgggccac 120
 atgggcctcg ttcaaacct tcactagcag agcccgatga ggctcggagc tcatgagtaa 180
 ctccaacagc gagaccctgg ccggagtttt gttgagctgc tcgataacct tgaattcgct 240
 ctgctgaatt atacggagga actcgtctggc ttactctagc gacacctgct ttttaccata 300
 accatccttt ttctcccgaa gaccttttac cangatatct ttatt 345

<210> 27756
 <211> 289
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27756

atggaaaggg ctagacatga tacatgttan ggcattgtctt gggtcacgga aaaaaaggat 60
 gcccacatt atttccatga cacagatgcg aagatgatga tatggaaaga atgtgcataa 120
 ctggatcatgc atgcgccgat gaggacgact aagtgtcaaa ctttgatggt cgtgtcaacc 180
 ttaggatcta gatgtattag ctctattata gatcaccct atgggcccaa catatgctat 240
 ttcatcacta tatgctttta tctaatacca agtaatgcgt gcggggaaa 289

<210> 27757

<211> 539
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27757

ggatcgaagc cgacgcggan gagacgaaag ggcgacgacg ggaaaaaaaa aaaannaaga 60
 gaggaattga tgcttcgatn gccctagcan aaccngaaac nnagcaccgg acggcgggan 120
 ccganagagc cgccggcagg catgcacgcc ngtccaacga cccgcgagac ggagaccaac 180
 acgaaangca ngcgcgccga ccaccaagaa gagngacgac cagacacggc ccacgagcag 240
 gggaacaccg acgacnacgc ccaagcgcca gcggaacaag acgcaagagg aagggggacc 300
 gacaccgaac accaagaagc aaccggggcgg aggggaacaga cagcgagaac gcgaacggga 360
 aggaagaccc cgacagcagg anaccccagg cccacgcgac agcacacacc gacaccgccc 420
 ccgaagacag acacgcgcaa caaggcaccg gaaaaacaag anagacaagg ggcccacagc 480
 aggagaaacg cgaggaaaaa ggccgggaca caccgcgga ccgaaagcag agcaccccg 539

<210> 27758
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 27758

gtgttcttac aatctcccat tctttagttc tgatatttcc aaatctatat gatgtgcatt 60
 gatgttttcc ttccacagta cctgttctac aacatgcttc acaaacatgt tagtagcatc 120
 ttttcaattc aaggcaagtt taatttcaat tagtcatgat aaacataaat tttttcacag 180
 aaacataaaa aaatttctcc cctttttggc atcaciaaagc agaaaagagt gtgtatcata 240
 gagaatataa acaataatag ttcaagaaac acaaaacatt gaaaaaaaag atatcatgtc 300
 attaattaaa aagagattac aactgattaa gaaaacatag aatagcatag tcaaaatgca 360
 gaaacaaata aacagagaac ataagatcaa gcctagatta tatgcttatg agat 414

<210> 27759
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 27759

agcttcgtat gctttatgaa gaatatgtta aacttggcaa ggaaacaatc cctaattccg 60
aaaaggaact tcagcaactt aaagaagaga tggatgacaa atctcaggct cttgatgatg 120
taattatcat aatttccttt aagtagaaag ttgaatccct ccatacttgt tacttccttt 180
cttgaatggt tgctntgtgg ataatgatga ttattatctt ttttatcaat tgttttagtat 240
tatctatttc cccctctttg cttggtgtta acttggttta gattacacaa ctactgcaac 300
tgtcagggtt tatgcgtttt agcacaagta aaatctgaca aggatttggt tgagacattg 360
gtgcaacctg ttgaaaatgc tgaccggatt t 391

<210> 27760

<211> 436

<212> DNA

<213> Glycine max

<400> 27760

tgacgcggca gagagagaga ggaagggttag tggatttcag tggtgaaagc accacggcag 60
tacgtagaag agaagagaag agaagagagt agtgtcgtgt ggtgtgtttt aacgtttaag 120
aaatgaatga atattcctga gtggattgtg aggaagatta cgacaaagtg tcaagccccg 180
tccaatgaaa cgacaataat acctacctgt cttagtatta ctaacgttta cctctctggc 240
cagtacagtg actagtaccc actatattaa ttatataaga taaaaaggaa aagatgattg 300
aaaataaaac tctaattaa tatgaagagt attttgaag cattatcttt gaatacaaag 360
agtttatata tatatatata tatatatata tatatatata tatatctcag 420
tcaggagaga gagtat 436

<210> 27761

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27761

agtttttaat atgttgaag gcttataaat ccaagctgca ctacgattgc ccgntgaac 60
tttacctctt ctttaatctt ttgggctaata atcatttttg gttactgtaa atgggtctttt 120
gggctgttgt ataaataaaa ttcttccgaa gccatttgag gtttaccttt cttgtccatg 180

tttctagaat gcatgatgaa acaaattttc caaacgagca ctcatcttctt atttaatgaa 240
atgtccaatt ctagaggctct ctatgcattg aaatgttcaa tcatttctct acaggattgc 300
cctagattac aagttacttg tctttattag aagtttcttt gntaagcatg acatcattat 360
attttttgca taatgttaac aatgctgcac tatgggtact 400

<210> 27762
<211> 352
<212> DNA
<213> Glycine max

<400> 27762

atctgttcaa ttcagttctg gcgaagctca gtttaaactct tctctttgga acaccctac 60
aacgtatagc gttattgctg ccataaaact ctcatcatat aggagactat atttaaact 120
gtgaatctaa tccagactaa ggcacaaaact accttttggga tttgaagaga catattccag 180
actctaaata tttgtaaaat cagaatccat gtgcatgata tcatatcctc tattcaattt 240
catattctcg acaatctatt cctcataatt aggggtggga ataggccata ccatgctgta 300
aaaggcctga gcctatccta ctgatggata tcgaagactg agcctggcct at 352

<210> 27763
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27763

agctcgaccc gggatcttat atcacctgcc gcatgcctct tttctttcat aacctgctac 60
tgataacatt ctaatgcatg ctacattctt tgtgcttctt ttggctaaca tacacactag 120
ctcaacttgt gaaaataaac actacttcgt cacaatcatg cattcaatcc gaaaacaatc 180
tataacaccc atttcacaaa aagataaaag tggttcactg cataatcatt atgatcaagt 240
caaactgtta tgtatgcttc gaaacatgca tactagatat ccacaaacaa aacacaaata 300
tatataaacg tagatcagaa tcaactaaaac aatgtactga aatataatag atatcatacg 360
ttccaaaaag cangatcatc aggaatttac cagtcctgag aca 403

<210> 27764

<211> 433
 <212> DNA
 <213> Glycine max

<400> 27764

tctcggctca tgctgggaac gcctctagtt caacacttgt gcagttctaa gcacccaccc 60
 agaggggaagc tcccccaagtt ccaactccga atgcgactcg actggccggt aattccaaca 120
 cgacaaggaa cttccctccg aggccattgc cggaattcac cccgctccca atgacgtacg 180
 aagatcttct accatccctc atcgccaatc atttgccgt ggtaactccc ggaagggtcc 240
 tcgaaccccc tttccgaag tggatgacc ctaacgcaac ttgcaagtac catgggggtg 300
 tcccggggca ttccgtcgaa aaatgcttgg cccttaaata caagggtccac acatttaatg 360
 gatgccggat ggctgacttt ccaagaggat cggccaatg tgagaaccaa cccgctcgcc 420
 aatcatggag ggg 433

<210> 27765
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 27765

agcttgcttc atagaggtec aggaaggata aggcggccaa aggaactagt tctcctcctg 60
 agtatgacag tcaccgcttt atgagcactg tacaccagca gcgctttgag gccatcaagg 120
 gatggtcatt tctccgggag cgacgcgtcc agctcaggga cgatgagtat accgatttcc 180
 aggaagaaat aggtcgccgg tgggtgggcat cactggttac ccccatggcc aagttcgatc 240
 cagaaatagt cctcgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgaagtccctg cgtgaggggt cagtggatcc cgtttgatgc agatgctatt ggccagctcc 360
 tgggatatcc gttagtgcctg gaagagggcc atgagtgcga gtat 404

<210> 27766
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 27766

taatggaaga gaattgcata atgagtgtgc tagcattcga tttcttagag gtcgtaaact 60

gttcatcaat gactttcaac agatctctga ccttatcatg ctgggtcaact gaaccccgga 120
tactagcgga tatgttggtt tttatgaaca taacggagag acgattagat ctctcccaact 180
tttcataaag atcaacagca tctgggttcgc tagtttcagt aatagccggt ggctcatcct 240
tccttataac atagtcaata tccatccage ccagatgaag gagaaatctt tccttccaaa 300
ccatataatt atcacctttc aaaatgggaa ggtcacaga tatattcata gattgtgaaa 360
ctgcaaacaa acacacatgc tcattaagaa aatttgagac taaaaaatg tcatg 415

<210> 27767
<211> 390
<212> DNA
<213> Glycine max

<400> 27767

agcttgata atggctagac atgatacata tcagggttg gtttggttca cggataaaag 60
ggatgcccc cattatttcc atgacacaaa tgcaaaaatg atgatttga aactttatgc 120
aaaactggtc atgcatgctc ctatgctgac gctcaagtgt caaattttta tggctcgggtg 180
atgctagggt tcacgattca tttcctctat tttaaatcaa cccaacgttt ccaaaatatg 240
ttcttttata aatttggtga ttcattccgag tccatttttg gcgtctggga aaatcttcac 300
agcattcacc ctttatgtgt atacacattc tttcagaac tagctatgat cagcgaatct 360
ttctttttaa gaagagttgg aaatcatctc 390

<210> 27768
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27768

ttcagactta aataactacg ttgggtctaaa tttctcatcg caccttatga attgtaggag 60
caagggcaac acccttgtcg accccctaaa aaaatataaa aagggaag taaataattc 120
tgaagtcaag ttgcacacac tcgattaaag gctgccatcc cttctgacgg gcgcgtgggg 180
tgctaatacc ttccctatgc ataaacaact cccgaaccgc cttattttca aaattcgcag 240
acctgttttt ttaggttttc taacgttttc cttgaataaa cattggtggt gaatccgctc 300
atcttctccc ttggagactg ttgcacggcc ggcaagtga cggatcgcg caagtagtat 360

aaaacggtaa gtgaatacca agtatcaaac tctcagggaa cttgttntac ttggtaaagc 420
tgtgattcag taaa 434

<210> 27769
<211> 404
<212> DNA
<213> Glycine max

<400> 27769

tttagcttgg atttcctttt agtagggaat ctatccttcc taagatggag ccaaaccag 60
tcaccctcat taagaactag ctcttttctt cctctattgc ctttagttga atacaccttt 120
gtttggttct ctatttggtt cttaaccctc tcctgcctct tctttacaaa ttctgacctt 180
gattcccttt ctttatgtat aaaagaagtg tccagtggga ggggaatgag gtctaacggt 240
gttaggggat taaaccata gacaacctca aaaggggact gcttggtggt tctatgaacc 300
ccactgttgt aggcaaattc tacatgagga agatactcat cccaagactt atggctgcct 360
ttcagaagag cccttataag ggtggataaa gacctattca ctac 404

<210> 27770
<211> 402
<212> DNA
<213> Glycine max

<400> 27770

tccatcattt cttctcatga aacttgaatt taaacttgat cttgaacttg ctgactcaat 60
cttgaaatca ttcttactca atcttgaaat cattctttgg gctttttgtc atcatctttg 120
tcatcatcaa aactacttga atcaacttga ttcacatca tgaagcttgc ttctacacat 180
tatggaccog ctagttagtt aagtcatttg attgagtatg caattttatc atgacctttt 240
atttatttat tttccctttc tctttaattc ctttggtgag ctcatgttcg ttaaagtttc 300
attccgttac cattcgatat gtgggtttagc tttgaacttg tttcttttat tcagtgtttc 360
gctcatgggt gtatataacc tttgtcacat ttgtacttct tg 402

<210> 27771
<211> 369
<212> DNA
<213> Glycine max

<400> 27771

ttagcttgtg gtgcaaaaga ttacatctat acaaaggaat tttttatggg gcagcctcca 60
agactccacc aagattccct gggtgagggtg ggacatagtc tgcctactaa gagtaaaggt 120
gggttaggga tcaaagatth gattaaattc aatgaggctt tgcttgctaa atgggggtgg 180
gagttggaaa ataatcagaa tcagttgtgg gccagaattc tattgtctag atatggtggt 240
tggagggatt tgatttctga tatgaactgc agtttagact ctcttgggtg gaaagacctc 300
aaggatatct tcaagcagca gcatagcaac acaatttgca atcacctgaa gtggaagctg 360
ggatcggga 369

<210> 27772

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27772

tcagaccaa gcaactcana atctaggtat ctaaaacccc tctatttagt ggattttcaa 60
ggtttgagaa gtgaaaatga gaatagagta aatttgagac aaactctcac ctacacaaag 120
tctataacat caatctaaac ttgctcaaac tggttttgca cctaaaattc caacgaatca 180
aaatttgact cctcaacacc caatcttacc ctgaaatgg ctcttgctt cactttggtc 240
atttgttctt ctctcttgca caaccaggc tttctcataa gtcctaaatg acatttcaaa 300
ctaggattaa ctccctttaa cctgcaaata ccactaaatc cagatttggc ctccacctc 360
tcaaagctc acttttttcc actcgatata ccatattctc actctctaac c 411

<210> 27773

<211> 403

<212> DNA

<213> Glycine max

<400> 27773

tgcatttatt gtttgccctt aagatgtgga ggcattacct atttggctcc aagtttgagg 60
tgtttagtga tcataatagc cttagtactt gtttggtcag aaagagttga acatgcatca 120
aaggagatgg ttagagtttc ttgaggatta tgattttgag ctaagctacc atcccaacaa 180

agccaatgta gtggctaacc ccttaagtag gaaatcccta catatatatg ccttgatggt 240
tagagaattg gatctcctaa aadaatttac agactttatc cttgtgtgtg aggttacccc 300
taacaatgcg agactaggag ctttgaggat tactagttaggag agatcagata 360
tggccaaaag gctgatcctt ttctgaagac taagatagaa gct 403

<210> 27774
<211> 429
<212> DNA
<213> Glycine max

<400> 27774

atgaaaagta tttgtgcttc tacttttgtc aatgatctct tccatactat aaaaaggata 60
tttagacatt cacaagttca tattaaaggg cctaaatgac tacactgacc ttctaatact 120
ttgcttgctt aaactagagt tcaactcttg ttaaccacaca actcacttaa gctagaatgc 180
atcttcactt aagctaaaat tccattacat gatgtctttg cggttaaaatt tgaattacat 240
tacgatttac gttggctaag tgtaaccgaa taccaattat aatactgaat agaagcacia 300
gttgtctccc aagagaataa tgcaaggata aacattcaaa ttaaaacctt tcggataaat 360
atatttttgt gtttttatat tttaaactac ctacaatcaa aactaataaa aaaaaataga 420
agatgtatt 429

<210> 27775
<211> 184
<212> DNA
<213> Glycine max

<400> 27775

tagcttggtt ttcaagagag ccatactcat gattagagcg cctggcagca caacacatgt 60
cggcattggtc ctccattccc ttgtgcggac atcgaaactg atacttgact agagacatgc 120
gtgtatttgg ggtgatatca ccatgctacc cgttccacta tgacctcccc tggttgaaac 180
ctac 184

<210> 27776
<211> 339
<212> DNA
<213> Glycine max

<400> 27776

ctaagcttga ggcttgaaac ggcgggggta ttcctcaatt ggaagaaata gactcttcag 60
tgaatatgat ccttgcggtg ctgtttgcc aacgtgaggg caatatacat catcgaacgg 120
tgcgttttga tccatctttg ttatcttctt cccatttgca attctcattt ttgcagttat 180
acaaaaaccc catcattttc cccaattccc ttacaacagc tcgattctac catgctgcga 240
tctaaattga ggatcaaata atgctattta gattggactc gaaatgggtg tttgacttgg 300
atcctgtggg gataatatgg tagtagatag catatttgt 339

<210> 27777

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27777

agttttccac attgaattca gcacctaatg tcatattaga tgggaattgg gtatcttaac 60
ataagagatt tcagatggac tttaatccta atcccacagc cgaccttttc acgagatctc 120
tacttaaccc tttggttaaa tgatcggcca aattatgctg agttctcaca gccctacatc 180
cccaaatttt gagataactc aaatttggtg tctttttgtg ccaaagttca tatggcgtaa 240
ccttattcct tttgttagga attcggttca acaagtaaca ggctgccaac atagcctcac 300
cccanaatcc ttcacttgaa cctgaatagg ataacatgaa attcaccatt tctttcaagg 360
ttctattctt cctttcggct acaccattc 389

<210> 27778

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27778

tcacaaaagt gtgtatggct tgaaacattc accgatgcag tggttcaaga agtttaatga 60
gtttatgagc aactcaggat tcaaaagatg tgacatggac cattgctgct atgttaaaaa 120
atatactaata agttatgtta tccctgttgt gtatgttgat gacatgttga ttgcaggatc 180
tagtatggca gaaattaaca ggttgaagca gcagttggca gaaaactttg aaatgaagga 240

tcttggtcca gctaaacaaa tccttggtat gagaattctc agaaacatat cagaaggaat 300
 tttgaagctg tctcaggaga aatatataca caagttgctt gacagggttt accttgagaga 360
 ttctaagacc aggaataccc ctttgggatc tcatttgaag ttntcaaaga agcaatcttt 420
 gca 423

<210> 27779
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27779

agttcccaagt catccaactg tgacagcaag aggtatcctt attattgcat cgagttcatg 60
 tattatgaac taggggatca catattcaga agcacatatg aaaatagtgt gaatagacgt 120
 agcacgttgc ctagtacaaa caaaatccta tattatcttt tcttggtata aaatgattgg 180
 tgtgtctcac attaatatat agaatttttag taaccataaa tctaatttac gtgaacaaaa 240
 ctgaattcta aattcatacc ttagagaagt tgcccggtcc atgctgttca tcaatggaat 300
 ctatattata ctttactacg ctgttcaatn ggctttgtca tgagttttta gtagaatggt 360
 gaagggagaa ataccanaat tctatcca 388

<210> 27780
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27780

tatcaaacat catgtgaagt tggacgacct cactgttcag taaaatgctt ggctactagt 60
 taaataactt agagatggac gcatgaaaac accctcctag gattcgaggt cttaatgggc 120
 aaaagatgac aaacaaaatc gattggaact aagttttttc tgtcaacgtg aacctgtgtt 180
 ttgattatatt acgacttatg ccaggtaagt tccaaatcaa aagctgcttt cgctggtcac 240
 gaccaaattg acaacctgtg tttcatcggt ttgtttgcca ccaaaatgat agttcaaatt 300
 atgtttgaat taacgcgatc ttttcctctg ttgcttttga ttaacactat ttttattagt 360
 aagatgccgg atacgacatt tntcattctt tgtaccattt gaataatg 408

<210> 27781
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27781

tgtcttaaga aaacccattc cccaacctca aaatgcctgt cagccctctt tctgtcagct 60
 tggttcttca tcctattctg cgctcatcgc aactgatact tcaactgtga aattgcttca 120
 tctctgtctt gtaattccct cctaaccgct tccacgtgaa cctcccctgg taaaaaccta 180
 cggagcatcg gtggtttgcg aacatagaca acttcaaacg gggtcattcc agatgacaca 240
 tgaaaattgg tattatacta atattcagcc caagatagcc aaaggaccca aattttgggt 300
 tggtcagcta gaaaacatct aananatggt tctaatacacc acttatgttt gcccatccat 360
 ttgaggatga tatgctgtgt tcattctcag agct 394

<210> 27782
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 27782

cttaatgaca ggatcggtgtg tgaatctttg gctaatttta tggatgcttg tattatgaac 60
 atattatttt atttttatat aacaaggaac tcaattgatc cacgttgaat ctattcgctc 120
 ttgacgaggt tattaggttt gggtagtaca ggttcttaaa cacatccaga cgcactaaaa 180
 cccacgaaaa ttggctgatt aagatatttt tgcacctatt caatctacat caacccatga 240
 atagtcccat atgataaatg atggtatgct gaaaaagaac attgtatttc accctccgct 300
 aaaacaaaaa tgacacatag ttatttttacc ttttacacgt accagacatg at 352

<210> 27783
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27783

agcttaacca atatgtaaag cgataattaa aagtacacat cagaaattaa agagtgtagg 60

gaagaagaag acaaaaacaa tatttatact gggtcggcca caaacctgtc ctacatctag 120
 tccccaaagca acttgcggtt cttgagatctt ctttcaacct tgtaaaatcc ttacaagcc 180
 aaagatccac aagggatgta ctctcccttg ttctctttga ataaccaagt ggatgtaccc 240
 tccacttgaa ctgatccaca agagatgtac cctctcttgt tctcagtata acaatcccca 300
 agtagatgta ccctctactt gtaccacana ggatgtaccc tccaatgtgt tgggacaaaag 360
 aattctcagg cggttagtcc tttgaatctt tgtaa 395

<210> 27784
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27784

tgatccttga atcttgaaat caactntcct cttgaatctt gaattgttct tcatctttcc 60
 tcttgaatct tgaagtgttc ttgattctat cttgaacatc ttgaactcat tctttgattc 120
 ttgagatcat catcttttgt atcatgaagt gttcttgacc attgagcttt ttgtcatcac 180
 cttttcatca tctttgttat cattaaaaca tctttgaatc aatcttgatt gatcatgaag 240
 ctttgcttct aacttggtat ctacggattt tcatgaaggg tgttgttagc gcagattttc 300
 tcgctcagcg gatggactga agcgggtgcac ttagcgggat gacccttcac ttatcgaata 360
 tgcacagctc atactccttc cagattcttc ctgcgctca accgagaagt gttgcactca 420
 gcggatggct cgct 434

<210> 27785
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27785

agcttctatt taagctgaac cattntatca ataaagacca ggtgaggttt attcagaaaa 60
 ttagagggtta tctcttttat cttagtgaat gtgattttcc taaattcttg aatgattcaa 120
 gaacaccctg gctgtatcaa aggacattca caaccttctg gtgttgccct cgctggaaaag 180
 agtgattttt tcttctctt catcttcacc cttgtttttt caaaccacaa ttccagaaaa 240

tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatttggag ccctgtagct tcagatattg ccatttctat att 403

<210> 27786
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 27786

tggttccta ggctagaat tgcattcggg cattcatttt aaattcttca tgctgtccct 60
 atacatataa aacagtccca caaccctaaag ctcaaaaaac catgctcata tgctcgttgag 120
 gcatttcacc gagcacttgg tgggcgcatg tttaggcacg aatatcaaga gaatggggac 180
 aatgtggcac gcgccattac ttcagaatac accctaggcc aaggccatcc cttacaaccc 240
 ctcaattcaa caaaaacaag caacaatttg aggataaatc cctcacgttt cttagcaaac 300
 acatgcaatt tagagcacca aaatacatca atggaaagct agaaagccca agaatgaggt 360
 acttacttgt tggagacgaa taatagagca taacggaatc aaaaac 406

<210> 27787
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 27787

agtctttaac ttattgtctt cacaataat catcacacag cagaaaacta acaaattctac 60
 ccatcatatc tgccaaaacc ccataccac gacaatcaaa ggagaaagaa gtccacccaa 120
 acctgaaatt tcgaagtccc actcgtagct cagcacttc acgactccaa aaatgccttg 180
 ctttcgcatg ttggagcata aatgagcacc aaacgttga gctttgttgg ggtttcaatg 240
 gagaatggag gagaaggata aagcaacgtc aggatgacgg acagctgtct gaaaagtgtg 300
 ggggctgagt gaagagagag aaaag 325

<210> 27788
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 27788

tcgaagggaa gagagagacc aatcacgagc acatatcttg atcttgaaag aggagttggc 60
tgcttgctca aggtccaaaa gaaacttgtc tcagcgttta tgcgagacag agaccaacat 120
gttagctatc gtcagcaagt accaagaaga actaaatcta gccacggccc acgagcacia 180
agtggcggac gagtatgccc aagtgtacgc ggaaaaggag gctagaggaa gggatgatcga 240
cgcgttacat caagaggcaa caatgtggat ggaccgattt gctcttacct tgaacgggag 300
tcaagagctt ccccgattgc tagccaaggc caaagcaatg gcggacacct actccacccc 360
cgaggagatc cacggactcc ttggctattg tcagcatatg atagaattaa tggcccatat 420
aattagaaac c 431

<210> 27789

<211> 402

<212> DNA

<213> Glycine max

<400> 27789

agcttatata catctgcaac gtgaattctg ttacaactga aaagataact aactaattca 60
gccaactaac taactatttc tggttaaagct gtttatactg ctaagagccc cccccaagct 120
gggaatggat attcatcatt cccagcttgt tacaaggagg ctgaaagggtg gctgggtggta 180
aagcttttggg gaatatgtcc gcgagttgca tggaagatga gaccggaagg agctttacga 240
gaccgcgaat gactttgtgg cggataatat ggcaatcgat ctcgatatgc ttagtgcggt 300
catggaaaac gggatttggg gctatctgaa ttgcagattg gttgtcacia tataagggtgg 360
ctggctgaat aaatgctaca ccaatgtctt ggagaatata cg 402

<210> 27790

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27790

tgctcttgat tnttctcag ttctttaaca agcttttaac aatattcttg gccttcattt 60
aactgtcttt gggcttggca gccacgctca acaaagtact ttcgacacct actgtacgtt 120
gatttcacca atgctgttat gggaaatgtg cgacaatcct ttaaacctt attgatacat 180

tctgagaggt tcgttgatcat gtggccatat tgacgtcctt ctctatcgta agccatcgtc 240
catttttctt ttgagatgcg atcaatccat gttgctatgg ctggactcag ttcacgaaat 300
ttttctaaat tttgataaaa aatgtgcttg caaggagtgt aggctgcata aaaatagtta 360
tgaataacaa ttttaagtat aaatgaaagt aaaataaacg tgaccatcaa atatgaaatc 420
ttac 424

<210> 27791
<211> 282
<212> DNA
<213> Glycine max

<400> 27791

gagctcagct ccgcgggatg cgatacagtc gagctgcacg cgtgccatct cgtttctatt 60
ctcgaaatga taaccttcag tcttatatac aggttaactgg cgcattctac acacaagagt 120
cataatggaa actactccga ttccgcgga ggaccatact tcgagatacc cactacacac 180
ttagaccttg gaccgatcaa ttatatcttg tggacatgaa tcatacacat accatcttta 240
acttatatat tatgagtgat taatatctca catagggat ag 282

<210> 27792
<211> 411
<212> DNA
<213> Glycine max

<400> 27792

aaatgctcga gcttggttaat tatggggcac ttttcacatg tggacattgt ggaggacgaa 60
cgatggtgca catcaatgat ttccgcattc acaaagcact cagaaaccca ccatccagt 120
tggccacact acatatgacc tcaagtactt acacatagac gatatcccta attgtctcag 180
caccggtggc tcattcattac tcaatagcca tcacaacatc ctgcttaac aacattctaa 240
cagcacaac tatcactgac taacttaaca gagctttggc agaaaacgct gctctacgag 300
acaaccatta tcacagctta tatcacttaa cgaccacagt atccttatct tcgacggata 360
tcacgcaccg ttggaccgac aacacaattt taccggaaga ctgtactgta t 411

<210> 27793
<211> 396

<212> DNA
<213> Glycine max

<400> 27793

agcttggtatc ctccattgaa gctcatccta gcaaagcagt tcaagttgta ttgaagtcct 60
ttttggctaa aatttacatg aggcagaagt agagtcaact tatggcgagg accaaaattg 120
ttgaccatgc aatagaaact agagtcttga tttctatcta gtatctagag cagtatcatg 180
ttctgtggct tgcaattttt taaaaattga tgttcttatt tgacaatcct ttatttgatg 240
cagaaaaatcc attatttgat aatgatcttt cctcattttt tttctcattt ctactactat 300
tctttatatc cataataatc aggtgctttt tcatcagggt tattaataac ttgaaccctt 360
tccttctttg ttttcattta taatgcatct aatcta 396

<210> 27794
<211> 375
<212> DNA
<213> Glycine max

<400> 27794

tctaagctac tgagaatgta aaacaaattt tgttattctt aacattgtat ttacaaagat 60
attcacatac ttctatgatc tagtatctag gagatcaagt tcaaagcaca atctacagaa 120
actttcttca tgtcatttac atgacaagca ttttttgaca gctaattaca cttgtcctgg 180
agaagaaatg aaacttttta acttctgtca ttgttctggc cacagaatta taaaagagta 240
gcttcccaga ctcagcataa tgattaaggc tttgttaggt ttgacgttga atcaaattca 300
aatcagtcct catagaaatc acgttcaaca tgctttggaa cacgtgattc aggtataaca 360
aacgcacact aagta 375

<210> 27795
<211> 396
<212> DNA
<213> Glycine max

<400> 27795

agctttttca agtgggtcttc ggcattacat ttaaactcga tccattgtcg ataagtacct 60
ttgcgacaac gtgggtccata catctcatcg acacatgtag agccttggtg tgcctctccc 120
cctcaacggg aatctctttt tccgcaaacg cgatgtagtt gttggcggct atatgattaa 180

cgatgccttc gaaaccctcc actgagatat catgtgctac atgggcatcg ttaagaacct 240
 ttatcaacag cgcacgatga ggctcggagt ttatgagtag ttcaagcaaa cagatccttg 300
 ctggagtttt attcagttgc tcgaccacct taaactcgct ttgttgatg aggcggagga 360
 actcatgggc ctcttcaaag tcacggtggt tcttga 396

<210> 27796
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27796

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 aagctcacct ccttgaaaag cttccttaag aagattccta aagaagctag aacttagcta 120
 cacatacctc tctaattggct aagctcacct ccttgagatg agaagctaga gcttagctac 180
 acaccccta taatagctaa gctcaccccc atgacaaaat acatgaaaat acaaaacaaa 240
 atccctactg cacagactac tcaaatgcc tcaaaatata aggctaaaac cctatactac 300
 tagaatggcc aaaatacaag gcccaaacga aggagaaacc tattctaata ttacaaaaga 360
 taagcggctt catacttagc ccatgggctc anaatctacc ctaaggctca tg 412

<210> 27797
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 27797

tttgtcttgt tcaatcctga cccaacccgg gcatagtcag ttaatgagaa cctgtgacgt 60
 acctatacag gcgagctcct ggcagtcaac cgataaaaga acaaagacca caccgcaagt 120
 aggcttggtg ggaggctggc cagctatgga tcttgagcga ttatggactc tggctatcga 180
 ttaccaaggg agtgtaatcg attacaaggc ttaaaaatga agacgagaag tcaatatgga 240
 ctctggtaat cgattaccac aggtgtgtaa tcgattacca cgcctaaaaa tgaggtcagg 300
 aagttgagat ggcctctggt aatcgatgac caaaggaggg agtcgatccc atgcttagaa 360
 atggatatgg gatattg 377

<210> 27798
 <211> 280
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27798

tgtgcgaatc atatcactac tgcattttat caatattatc gtccttnctt tctctaccca 60
 ctcgtcacgt ttggacttct tacggaaaaa caccataact atactcgcca cagggcatac 120
 ctatggcacc atatccaagt ctagaacgat ggggtgacac taagagacac atgatcagat 180
 gaaagctgac atgtgagctc tgagagaaca tatgtcttcc atgatggacg ccatgttttg 240
 aatgagagca gctaattggag aatagacggg tcaccactac 280

<210> 27799
 <211> 256
 <212> DNA
 <213> Glycine max

 <400> 27799

attctagttc ttggcacaac atttatgatt cacgtgcgga gagttattgt gcatacctgg 60
 aagcttcatt agacgctgtt gaattgtcta tgagtaaagg tttgaacgct taaatagctg 120
 gcactcgcga gacatacaca cgcgtgagta ctatagacgc aagagctcgc gtgatatgga 180
 agcacatact atgcatactt cctatatcat gaagtatgct tattaggtct cttacatgat 240
 acgacgcatg ataccc 256

<210> 27800
 <211> 328
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27800

tcatgacgat gaatcaagtc gagecgtgtg gctttgtcta tgaccttaga tgangacgaa 60
 acgccgaacg aatgacttcc atatcgagtc gacttgatta acctacggcg attcgagatt 120
 cccgtggcgg ttgttgcac gatgcgagac atgatgattt accgagtcga gacatgcagt 180
 caggaacact cctctgggga cgtattgaca tttttcttta tcgacaacat agcacatttt 240

tgtttcgtca cacgagccat ctcaggattt tctaagttac cagagtcttt actctttggt 300
gatcgattac cagtatcgtg cagtcgat 328

<210> 27801
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27801

ttcattttat gtttctacta naagaacaac agcgttacat attccaaact accccaatct 60
tccatatcag ttgatgtgtc aagttcaaga tgccatactt catgtcagtg tgccaagtgg 120
aatcatcact cttcccttac tatataatca caaattgtat atactatata gttattgtaa 180
tgccaatatt agtatgacca atgcattata ttcattcttt ttaataattc taagaacatg 240
gttccatggg aaatactatt caatcttgta ctatcttttag cttcctttcc aatacttgga 300
caaggaggat aaacttttag agcatgccaa agctcttaaa gtacatacca gaattgaccc 360
tgatatagaa cttggtccat tgatc 385

<210> 27802
<211> 412
<212> DNA
<213> Glycine max

<400> 27802

ggttcgtgaa tcatcttctt cttgaagttg catcttctat catcttgctg tcttctgcat 60
tccgctgcca ttgaaattca agatgcaaag gacttcattg atgaagaaga tccaaggcct 120
acaatctcca catggagata catcaacttt ttcattgaaac ttttaagagat ttagttcagc 180
tttccatagc caccaagaat agatcaattg catttctgta actctagata cattttccaa 240
aatgaactca tcctgttgat gaaattccat tttgagtgtg tagtaacaat gatgttcttc 300
atgtcatgtt cattgttttag atcttcatgt ctgcaacatt catcttttcc tttagttggt 360
gaatatttct tatggcttga attttttate ttcattctagt gagcatgtcg ac 412

<210> 27803
<211> 338
<212> DNA
<213> Glycine max

<400> 27803

tgtttcaacc tagaggagac ggaccattcc aagtgttga gaagatcaac gacaatgcct 60
acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120
ctcttttttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caagaaggag 180
ggagtgatga ggacataacc aagggaagg accatgaagc acttgaaggc cccatgacca 240
gaggcagact taaacaagcc caacacgtca tagagacaag gctggtcatt tgtatagctg 300
ccattgatga tgattgaagg cccaagtga gaaagatg 338

<210> 27804

<211> 256

<212> DNA

<213> Glycine max

<400> 27804

tcaccggatg acgccgatct aacattttct aaccgttgtc atgcacaatt cggacacgga 60
tcgaatcgaa aacctcctat gcgacgtctg acgtgaacta cggaccgatg ttcctcacct 120
cgacatcgaa caattctctg cacattacct cgatagtga gtagggcctt tctaacgcta 180
cattacttct cctgtccagc agctgcatca acccctgaca ctgccctcag gtgaggcccc 240
tccacggact tccctc 256

<210> 27805

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27805

agttttcaga catcattctt ttgaaactgg tccaactctt cttgcattgc ctttaaccocat 60
cattcatcag aataacatca tctatgtgtt ttggcttgat ctctaaaagt agagctatat 120
gcttgacaga gttccttgtc tggactttgt ccttaggatc accaatgata tgggactcta 180
tatgatgttt cctcagcaaa cgtccagtta gttctcttac tttttcaagt tgatcatcca 240
ctggtgagtt ggatgcaatc ttttcttaat tggatgcaac agcaaaactta acaatatattt 300
ctattttcat ctctacaana ggacgtgtac aactctaaca ttgtggtgtc aagcttattc 360

tcattacatc ttacacgaat ggctctgtac acagtcaag

399

<210> 27806
<211> 328
<212> DNA
<213> Glycine max

<400> 27806

tctacttatg tggcaggggt ggcttccttc acttttttgg ctgcaaagcg agctttgacc 60
actgttggtc cttgccgcga tgcttctttt catgtcacgc tgagtgggct tatagcctaa 120
accgtactta ccacgaattc cttgggtatt taataagcta attatgccga cgatgacttt 180
gcctaaaccc atcccgggggt cataaccgga tcccaacata actcggggcca tcattaccgc 240
tgcgtcggac agacaatgat gacaaaaatg gagtgcacgg aagaaatgct gaccacctca 300
aaagactgga aagcgattct aacgattc 328

<210> 27807
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27807

agcttgtatg gtagcntaag gctatattca gaaggaaaaa gtagactata atgaaatatt 60
cttttttagta gtttgacaca cctccacacg tgtttggcta gccctagtgg caactcttga 120
catggagtta aagcaattca gtgccaaaac tgtctttctc catggaagac aagaggaata 180
cattatgatg ttatgatttg aaggttttga ggtggaagca aaggaaaatt ttgtctttag 240
attgaagagg tctctntatg ggatgaagca atcaccaaag caatggtgca agagatttga 300
tgagttcatt atctcgcatg ggtacattag aagtctttat gactcatgtg tttatcatag 360
caagggtggag gatggttccc acatatatct attactctct atggat 406

<210> 27808
<211> 423
<212> DNA
<213> Glycine max

<400> 27808

tatgctgcaa atatttacia tagacctcct caaccttatc agcataatca accacagtag 60

aacaattatg acctttccag caacagatac aaccctggat ggaggaatca ccctaacctc 120
 agatgggtcca gccctcagca acaacagcag cctgctcctt ccttccaaaa tgctgctggc 180
 ccaagcagac catacattcc tccaccaatc caacaacagc aacaacccca gaaacagcca 240
 acagttgagg ccctccaca accttccttc gaagaacttg tgaggcaaata gactatgcag 300
 aacatgcagt ttcagcaaga gaccagagcc tccattcaga gcttaaccaa tcagatggga 360
 caattagcta ctcaattgaa tcaacaacag tcccagaatt ctgacaagct gcctttctcaa 420
 gct 423

<210> 27809
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27809

cagcttgtgt tgcaataagt ggtggtattc atacaaagat gggtttgagc ttaaatgtca 60
 ttactagggg gaattctact tttatgatgc ttgagaagtg cccttgata tcgatgtgct 120
 tttttagtgc tggaatttga tgataggagc tattcaagtt gtcttattaa tgaagaatgg 180
 gagagaggac aaaatatgtg tgattttttg cgtccttttt tttaaatcac agagttgata 240
 tctgggtcct cttatccaac gtctaatttg taattcatgc aagtgtggaa aattgaatgt 300
 ntattgcttc aaaatttgag taataaggat gagttgatta gaacaatgga aattgatatg 360
 aaaacaaagt ttgataaata ttggagtgat tatagcaat 399

<210> 27810
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 27810

tctgcaacaa tcttcatcat cacctgcaca tgatatctga atcttttctc ctcttcaaag 60
 ggaagacacg tagccaagac aacgaggagg tagaattgaa gagaaagagt gtcaaataatt 120
 tcaaattgtg cagattgggt catatcaaaa gaaattgcag aactagactc tttaaagtga 180
 atgcaacata cgaagaaaat gaaggtgact catttgagta atttagatgg gatcaatgct 240

tcaccatcga ggatatgagg gttggacaga aggagatacc agtaaattac ctagattacc 300
 aaaaagaatg gatctttgac tctggttgct cacatcatgt aacaggtagg ggtgggtaag 360
 cgggctagcc tgcctgtata agcccgcatc ggcagcgaac cgggccagtc caccocgtat 420
 tcttacac 428

<210> 27811
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 27811

agctttgtta gtcttcacca aagaactaag ctagccaagt tcaacgcac ctcctctttc 60
 aatcatgttc ttgcatatgc aaaactcgaa tctgagatgc tgggttaatgg atctaaactc 120
 ccgttcactc gagccaacat aacgctgggtt gacattcacg gttcatatctt atacctagaa 180
 tgaccaatc agaaagaatc ataaatataa tactaaaaca tctattaatt aagatattaa 240
 attatacaga aaaaattaaa caagcttagg tatacatgag taatatctag aatattaata 300
 attgtttcta ttattgcacc tttataataa acagtcagag acatgtacaa aacatgctct 360
 tgatgattaa aaatactact cattagaatc gataataaaa catt 404

<210> 27812
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27812

taacaaactt agaaatcaag tgatcatgta ttccgtatat aggtggagaa ttacggatgc 60
 acattttatc tatatacaat tggttggtgc ttgcttgaaa tcttgatttc aggtattgta 120
 ttgtcatcat caaaaagggg gagattgtag atgcaattgg ctttgatggt ttgatgatga 180
 tcatgatgat gtgttgcaat tgatgcaaag gggcttttca agattaaaat tcaagacaat 240
 acttcaagat tacaaggcac aacatcaaga tgatcactag aatattagga agggaattcc 300
 taattgaatt agcaaagggtt tggccaagtg atttaaaata aaaagtgttt ttcaaagggtt 360
 ttactctctg gtaatcgatt accagaggat gtaatcgatt accagtggcc aaatacattn 420
 tataacagct ataaa 435

<210> 27813
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27813

agcttttcacc ccacccacca ttaactcacc acatggcaca cctcaacatc ctgccttacc 60
 ttctcccgaa cctgtccatg tttcatcttc ttctcaatca cttgcaatgg aatcactctc 120
 tcggtcttct acgccaacta tatctcaaca ttccatgggc actcgtggaa aagctggaat 180
 attcaaacca tagaaattat tctctgtgag caagcatcca atttttccag ttgaagaacc 240
 aactagtgtg tccaaagcac tacaatgtca tcaatggaag caagccatgt cagaagaatt 300
 taccgatctc atgaataatg gtacatgggc tctagtcnc agtcaaccac attntaatgt 360
 cattggaaac aaatgggtgt ttcgttttta aagaaatcca aatggatc 408

<210> 27814
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27814

tcttgcgtag ccgctcttgg tgctcagaaa atcccttaaa caaattcctc ttattactag 60
 ctatttttaa ttcttttagtt cctgaatgta caaccttcaa attgtttctc gttcccctct 120
 ttgagaatgt ggaggatctt cataggactt catccagctg atgtttgnca ccaganncat 180
 catccaccac ccttttcttc tatecttctc acgtttgaag tcgttaaacc catattgatg 240
 ccttcttccc ttcatgtctg gctttatgac aactttatcc gaattgacta t 291

<210> 27815
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27815

ttagcttctg catgtctagg gctttctaga gagagaatgg tccaagttcc agagagtttt 60

gagatTTTgt tGTgtgaaga ctagcggaga atcgagcttg aagaggaagt cgtcctgaga 120
gcataatatg agtctgtgag tgattgcgag gttctatagg tggaggagac atccccacca 180
cttgatatatc ttcaatcctt catctttctc ttctcttga tgtaaaggaa gctctctagt 240
tatggagagc taatcctctg ttggttcttc cttgtaggta cttgatgtan atacctgtat 300
atctatttaa tgatgctttg tGTgttctc gtgctatcaa aacttcattc taccatgctt 360
ntgccttgat cacgt 375

<210> 27816
<211> 419
<212> DNA
<213> Glycine max

<400> 27816

tgcctaatta acctgaaatt tataggaaat gattattaaa cacacaaaat agaattacta 60
agtatttggtt acctatcttt aactaaaaga acttatagca ctacaaaata accattaaat 120
gaaggagttt aatacaattt acataagttt tatacacaaa agttagtgtt attcatcgac 180
taacacacac acacacaatg taagtgaata tcactattac accattaagt agcttcttac 240
tggatcattt tatcccaaaa tccaccattg gatagaaatg tcttgtcata gacatcatgt 300
gtataaagtg ttccattaat ccaaactttt gtggtacttt attaataatc aattaaatat 360
taagattaac atagtatatt agaatcattt tattactttt attgttcaat ttatatgag 419

<210> 27817
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27817

ttagcttgca ttaggagagg tcccatcaac cgccccaaact ccttaaggct ggtgacatct 60
aggtccttaa tcttgacttg atataatctt tttccagttt gatttgttct catgttttac 120
taaagtgaat caaaaccag tgcgaaatcaa aactatgaca tctatcatgg gtggaatgga 180
tgaatgcatg aagaaatgca tatgacacag atgcaatttt atgaatacgg gagcccagga 240
aattgtcccc ttcttagata caacatttgg gcaggaatgg cgctcgatgt atgtatntaa 300
gaaggcgaca tggaccctcc gttggtttgc caaagtgagg ggatcaagac ataaccctgt 360

catgataagg cacaacacga gaatgtacat agtacgataa tat 403

<210> 27818
<211> 345
<212> DNA
<213> Glycine max

<400> 27818

tgtatctgta gctcagagaa tcttgctgtg atcctgtatc gagccaattg aatgacatat 60
taagttcagt gcgcaatcac aactagaagt gagggaaaagt aatgctgata ccaaaatgaa 120
ctagaaaaaa caacagcatc aatggcatca aacaaaagca tagtgccaaa ccaataact 180
tatagaacat taagaagcat gagtttctag attcatgata ataccgtaac aaaagaagaa 240
acttccttat ttactaatct ctagaaaagc catgagtttt ctattcagaa tcccacactc 300
tcacgttctg ttataaatga caatataaat aactaacaat gatat 345

<210> 27819
<211> 402
<212> DNA
<213> Glycine max

<400> 27819

atcttgatg tctttgtaat ttctttcaca agtaattggt gaaagaaaaa agagaaattc 60
tagtaacaca cgcattgaaa ttggttttaa tttatagaaa ataagaaaaa ttgtaggact 120
cgcatcatat ttaattagtc tctcatgatt tgtaattatt ctctcatgat ttgttgaata 180
gtgtgactct tattgatgat atgaaattgc accaattcat tcattgtacc agaagattca 240
aagttacttg ttaataatct tatgatatga atcaaaagggt gataaatcaa attatattga 300
attgtaggat tacttttatag cccaatagta agattccaat atgtcgtaca gtagaactac 360
tttattgcta aatttccttt atgcccctaa ttaattgaga ag 402

<210> 27820
<211> 414
<212> DNA
<213> Glycine max

<400> 27820

tatcccacaa cctctctttt cccccatggt tagcacttgg tctgtcctca tacgcgaaac 60

ccttttccaa ggctccaatc ctgctccaac aaccatgatg gatattgata ctctccaaca 120
 actccaaaac cgcattgcag aggtggagcg atgcatgag gaggagctca gaaagctaaa 180
 ggctgaccat gatcggatgg aggcttgtgt agaatgcctc tagggcgacg agcactcttc 240
 taacacattg cctaagcgca ctcaaggggg aatcataccc caacacactg tcaacaccca 300
 agatgatcct agtctctctc acatacacca tcttgaaggg caaactactt gtcgacaccc 360
 ctttgtcaat cacatcatgg aggctgccat accattaggt tggaaaccac tcag 414

<210> 27821
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 27821
 tagcttcatt aagaggcttc ctccagaagc ttctcgtgg cttctcaggg tgttacaagc 60
 tcagcttgcc catgcgagct aggttgcttc ctccagaagc aaccgccttc tagaggaaca 120
 tcttggaagg cccaagtggg cctgggtgct atttgacccc cccgttttta ctaagtacac 180
 ccccttgcc tttttttggt gattctttat tcgtaacgtt acgaaacttt atgaatttcg 240
 taacgacact tgttttcttt ccgtaaggct acggaactat acgggccatg taattactcc 300
 ttttttagct ttcggaatgt tacggaaact cacggattgc gtaacaatac ttgcttttga 360
 tttccgccat gttacggaat ttcacggata gcgtaacaat 400

<210> 27822
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27822

tcttatccaa ggctcatctt ggtggtgtag cttcttcttc catggcttat tccctagtgg 60
 atggcgcttc ctctcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcaaag atccagcctc cataaaagcc ccacaagcaa 180
 gcttccatca catagtctga tatcgcataa gacacaattt ttaacctttg tattttattg 240
 catttaatca aaattttaag gctcctgatt catcttaaga cataaatgtc ttttgactta 300

acatgcatgc tagtattttt agctntccaa gccattattc tcatttatga aactctatca 360
gttaaaacta agtattctca acttgccagg tgataatact atcttgcac 409

<210> 27823
<211> 361
<212> DNA
<213> Glycine max

<400> 27823

atcttgtctc acaccaaaca tgacaagttt agcatgcttt caacaaattc cttcacaat 60
aattaccaca aggcataaac ctagtaaaac taccatcat atctcccaa caccacaatc 120
ccacaaaatt atgtgagaaa gaagtatacc caaacctgaa atttgaagtc ccacaacgta 180
taggtgcgct tcacgactcc gaaaatggat tcctttcgcg atatggagca gatatggtga 240
gcaaagggtg gagctttgat ggagcttcaa tggtagaggaa gatgaatact ataacaacgt 300
gagagagaga gggagaaaag cttctgaatt atcgggctga gggaggagag agaacgtggc 360
t 361

<210> 27824
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27824

tttgaaca aactttgcta ctggtaatcg attacattaa actggtaatc aattaccaga 60
gagtaaaaac tctttggtaa aagcttttgt gaaaacttca tgtgctactc aatgttttga 120
aaaacttttt aatacttatt ttgattgagt cttctcttga ttcttgaatc ttgagtcttg 180
aatcttgatc ttgattattc ttgattcttg attcttgaaa tcaaatttct ctttattctt 240
gaattgttct tgactcaatc ctaaaatcat tgtcttggga attgttcttg actcaatctt 300
gaaatcattc tcttgggctt tntgtcatca tctttgttat catcaaaaca ctttgaatca 360
atcttgattc atcatcatga atcaatcttg attcatgact caatcttgat tcaatcat 418

<210> 27825
<211> 395
<212> DNA
<213> Glycine max

<400> 27825
 ttcttctaga gaaagctaca tgaagctgcc tcggtaaaaa cgcttcctgg ccttcattaa 60
 ccgttggatc gtctcgaaat gtggctctgca acttcacaaa acacgcttcc atgatctgac 120
 cgttgggac tttgagaaga tgtctggagt gtgctagaag cctcttaatg aagcttctgg 180
 aggaagcctc ttaatgaagc ttctatagaa aactacatga agctgcctcg gtagaaacgc 240
 tgcccagcct tcgttaagtg ttggatcctc tcgaaatttg gttttcaact tcacaagaca 300
 ctttaccatg atttaaccgt tgggatcttt gagataatat ctggagtgtg ctagaagctt 360
 tcgttcccga gagcatctct tatttaagca tttca 395

<210> 27826
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 27826
 gcacgtatca catgtggtac tatgtggcgg tcgggcgatg gtgcacaaca agctttccac 60
 atacacaatg cgcgcataat cccaccattc cctgttgccc acctccatct gaactcacgt 120
 actcccacgt agcccatatc ctagtatttc taaacacggg gaccccatca atcctttcaa 180
 gcttccacaa catacaagca aaacatcatt caaacagcac aagctatcac aggcaagctt 240
 aacagagcaa aggcagaaaa ctctgctcaa cacatcaacc actatcacag cttgtgtcac 300
 ttaaagaccc cagtgacaat tccttcgac caattcgtaa accgctggat cgactccaaa 360
 attatactgg aagtctatag tgtataagcc tacattgtg 399

<210> 27827
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27827
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 ggcttgcaat caaggcttag ttctgagggg gattccattc tttaaattca cgtgtatagc 120
 tataaccaac ttattagcaa gttcacacag tgtgagagtg agatatgttc atgocaaagt 180

acgaacaggt tggatatgtg gaacaaacaa gagcaaaaga gggctcttgg cttcttcctt 240
 tgtgatatga gagagagaga gagagagaaa gggtggtaat gttgtttctg aaacacaagg 300
 aggatcgagg gaggatcgtc ttctttntag aggtgagttc aatgggaata aagcaccgtt 360
 aagagagaga tcagacaaag aatgggataa agc 393

<210> 27828
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 27828
 tacaatgggt gtatactagc acaaaaatgt gccattttaa tcataatgct cattgatttt 60
 cattttgatt tctttgtgtg tgtttatatc ctccattaca atgaattgtt ctactaaagt 120
 tttttttttt ttttttcatt tgcaagcaag aatacatatg cctttttataa tttgctcgat 180
 tatatttttt gtgacacaaa cataggctac catgcaaggg ttgcaaggtc cccaaccttg 240
 gagattgcta ctcttattga agggacaatg tattttatatac agaagacatg gagatgtatt 300
 ggagccattc aaatatgccg gctatcccat gttgctgagt gctgttactg tggacaagga 360
 tgacaacaat tttctttc 378

<210> 27829
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 27829
 tattttcta ttaagattaa cctcatgcct agcaccacac gttgcctata ataaattaaa 60
 ttaataatta caaaatattt tttaaatact taaattaaat attttattta ttataagaaa 120
 taaagatatt taattattac catgcataaa attagaatta actttttcaaa ttatatattc 180
 agtataagat ccacgtcatt attgcatatt attcaaaaga tttatgaata ttatggaaat 240
 tggaaagcct cattgttttt atagtaagga gagctocatt cttaacttaa gttaggtaca 300
 ttggtcattt gatctttatt agcatgatca cttatgtgag tatgcacatt ccttttatta 360
 ttatattatc gagatgagat attcataata ttttatt 397

<210> 27830

<211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27830

tatctcagag gacactgacc tgaccttttt tagngttcta tnggatattc taattgctct 60
 tgtaaattga tatcttcata cctgcaaatt aatatccact tataatagag caatgatgga 120
 tatataatga agtactcata catgtaggta actgtaattt gaaattattt aaacgttctt 180
 tatcatatat aaagtaattc taatttattt tttgtataaa tatatatttc aattgttatg 240
 ttatggttta cttcttaaaa aaaaatattt taataaatat ctacgtacat tcgtgaatat 300
 acatgaatag ntgtactaat actaggggaat gaccaaggat tactatttac taccatttta 360
 tatacacctg cacatcttag taaaaata 388

<210> 27831
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 27831

agcttgacac ttgttttttag cggaccctaa acagtacaag gggccactat tgtctgctga 60
 caatgatgca caacaatcac caaatggagc aatacttagg gaagcacact cagacaatca 120
 caaatgtgtc aagctaactg ctaacacacc actttaaaaa tcatttgaag cctgaacaat 180
 tatgcatgaa caaaaaccac ccaaagacaa caccttcac ggacattata ttaaacacca 240
 aaccactgca 250

<210> 27832
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 27832

agcaagggtgg ataattatta atatccatca accagaaagg gaggtcatt ccttacagac 60
 cagtgccttc tccaactcct aatcatcaag atagagaccg gaagagtagt caaataagta 120
 aaatcttatt tatttactct ttcaagaagt taaaacgcac cagagaaaag tctcactata 180
 aaaaaatata catattgttt atctatcatg tctgagaatc acatatgtca agatcttact 240

aatttcttat aattggaat cttcaaaacc cttacaaccc ttcaagacat gtataagagg 300
 tgagtctctg caccacatga gtcgtgtaaa tctatgccca catcaattta aaactaaata 360
 tctcaattgc aatgcatgcc gaacagcaat atcacctgtac aaacacgtca gatccacaga 420
 taaagatact ag 432

<210> 27833
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 27833

cccgggatcc ttacagtcac cagccgcatg caagctcaaa ttgtttttta tgacacgtca 60
 aagcgaaagc gcccaattact gtgctccagt agctacgatt gatgaaacga tgtattactg 120
 tttgcagagg gcatgctcgc ttcttaacct gactcttgac ttgatgacaa agcagtgcac 180
 cctaaagcat aacgacatca ctaacgctga tgaagaaagt tgggtacaaag acgtcggcct 240
 aatacccatc actgatgcag tctctagaga caactgaca 279

<210> 27834
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27834

gctggctcta ataaggatgg ttatgatcat agtgatcagc acgctgttct atcagatctg 60
 atcttattca gatctcattc ggtctagacg ctatctcact cggatgttat tccatctaga 120
 gtgtatctgc ggcagaggaa actccattca atcttatctg atgggataca gagcttattt 180
 tatttcgact atgggcttgc actgaacata gacttgcgag ttttggggct gataacctat 240
 atggcagcac caaagctnta gtctaggaag tcatatgtgg gagagaagaa t 291

<210> 27835
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27835

aggggatggt ggggtttatac gtgatttgcc gatgtggaaa acttgttggtg caccatcgcc 240
 cgactgccac ctagtaccac atgtgatggg taccatcatat tcttacaagc ttgagatgag 300
 gaagtgtaga aggggtgaaac ttctgtctat tattcgttga ccacagagtg gtacctggag 360
 atatgtcgcg gnggtcatga gaccttgngg acgtcaggt 399

<210> 27838
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27838

agcttggttca tcaagtaact aaatncgntn tttgtgcagg atgaagtaac taactaacta 60
 actaactaac ttccactaat atatacagtt actaccacaga aggaagagat gggccttgat 120
 taggctcatt taatctaatt aaactaatta taaaaacaa agcccaaatt cacagcccta 180
 ttatttaagt gcagagggtc tgacttccaa gcccaatttg gccctcaaaa tggcataatt 240
 ggcccaagct tattgtgaca atattaaaga ttttttctt agctttctac ggattactca 300
 cacgcaccat tnggagttct ttagtgtctt ataggcctta cacaagacaa atatataaag 360
 caagcacata tatncaataa taagccacaa ttatcaattg agtcaatca ttttcttaag 420
 accaaca 427

<210> 27839
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 27839

agcttctttt ttttctacac tactctagag ttctccagga tgttctagaa aattctacac 60
 tcttccagaa agctccaaaa ttttctagaa cctctccaat taaggaggga tccaacaaaa 120
 tctccccctc ccgacttaat tggggggtag tagcaaaccg gcaccttgga taccttatgt 180
 caatgtgctt tgggtcatcat gcaaggattg cttctcttct tacatggctc ttctccactc 240
 caccaattca taggtgttat tctcatgcaa ggatttcac tcttcttgca tggctattct 300
 ccactcδacc aattcatagg tgttattctc atgcaaggat tgcatatctt cttgcatgga 360

tcttctccac caccaattca taagtgttat tctcatgcaa ggatatcatc tcttcttgca 420
tg 422

<210> 27840
<211> 418
<212> DNA
<213> Glycine max

<400> 27840

agcttcttat tttattaagt tcttctctcaa aactgtccta agcaaagttc ccaaagtcct 60
attaacaact tccgttttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120
agtgcccaac ttgctccaca aagtctctca aaaatggctt atgaacttag agtccctatc 180
actaacaatg ctctttggca aacctggag tctcacaatc tccttgaaaa acaaatcagc 240
cacatgggaa gcatcatcaa tttttttaca tggaataaaa tgagccatct tagataacct 300
atcaacaacc acaaaaatgg aatctctacc attgcttggt gttggcagcc ccaaaacaaa 360
atccatggat aaatcattcc aaggatactc cggaattgca atggatatac aatcatga 418

<210> 27841
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27841

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acacacacac acacactttt tcctagtcca tcactcacat aaatttccat tctgcccctt 120
tgtttttgaa tttatgcttc tcttaaaatt cagttgatta ctcatgtgag ttcttgattt 180
aatctctatt tctctcccc tttggcatca acaaagagcc aaagtgtgta acaaatttga 240
agcaagcaaa tacaactaag catccacaca acattcatga naaatataaa ccaaatcatg 300
aagcacgaac catgaagcaa gaacaatgaa tagatcaaat ataaaatcca catagtcaaa 360
taacataatt aatatttggt caaacatacc atgcaaataa agagatagta aattgttcan 420
atatcataat aata 434

<210> 27842
<211> 431

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27842

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gttggatctt ctcgaaattt ggtttgcaac tttaaaagac actttccatg atctgaccgt 120
tgggatcttg gaaaagatgt ctggagtgtg ctagaagcct cttaatgaag cttctggagg 180
aagcctccta atgaagcttc tagagaaagc tacatgaagc tacctcggta aaaatgctgc 240
ccatccttcg ttaaccgctg gatcttctcg aaatttgttc tgcaacttca caagacaatt 300
gtccatgatc tgaccgttgg gatcgttgag aagatctctg gagtgtgcta gaagcttctg 360
ttcccgagag cantttattt ttaagcactt cagcctttgc ttttgtgtag cttagganaa 420
acgtcatttc t 431

<210> 27843
<211> 356
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27843

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tattcctaatt acatgcaaga gataagaatg anaaatagaa aagggaaga atagctgggt 120
tgccctccag taagcgtctt tttaacgtca ctagctngat gcgtcatctt gttatctaag 180
atccaacaaa gttcctactt caaggactnt cttctgaggt ctcttttctt ccatcacatg 240
cactntaaga cagacanttt ggctangtgg atctttgtcc tcttggaaaca natcanagct 300
gatttnttaa tcttctatgc ccatctgcag tnatttcttt cccatgtcca ccaagt 356

<210> 27844
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27844

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atatcaatgt aaccactcat catataatcc actctagttt tattttaaatt ggaattcaac 120
 taaaaatata tttttctaga aaggaataaa aagttatagc aaaaatccac cataccaaaa 180
 ggagactagg gtagcagtaa ttctactact acatcataag ttcatagcaa atagcaatat 240
 tttaatgaag gggaatggta tttcacacca acatagggtca atcctaata gaaggcgaaa 300
 caatgcatta nggaagactc anaagtatct cagattccat gaaatctggc atttaacatt 360
 ntgccattaa atataagaac aaatgtcaca atgcatttga aattaaaact ganaggaaaa 420
 taaaataaac taaag 435

<210> 27845
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27845

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 tctgctccag tcgcctctgt agaacagaaa cctgcttgct aaaatttctg ttcttctctg 120
 cccctacatc cttgactttc gacctcctgt gcaatctctg aagtatcagt gtcaactcat 180
 gaatctcctc atccataacc atatcaacat tctttccttc acaaactctg attcttccct 240
 gcattccgca tcgcaagcta aagatcagaa cgtccaaatc ataagataag acaactaaaa 300
 gccaaaccac tgataactat agttatgatg cacaaaactc acanttcatt caacagaaag 360
 cttcagcttc aacacatgtt gctatcacag tgtgttagta tgtttgacaa ctaa 414

<210> 27846
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 27846

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 acgtgccttg tatgtgagaa caattacagg ccttacggga aggaccatga accacgctaa 120
 cactcatgga aatgagaacc tgcggaattg tctcctgagt gaccggggca tagatggcgg 180
 gcttagcttc ttggctaaac atacgaacat tacgaatatg aatgacaacc tcaaaggagt 240
 tgtggggaag gcaaaagaga ttctacaagc aagattaagc ctctgccttc aagatgtttg 300

catccgagca ccatgtgcca tcatcgagct ttagattgtg aataatgtta cgatgcctac 360
acacaatagt ctgagtgtga aaatactagt gttgcggtag cccgatctga tccagttctt 420
acacgatttc tcg 433

<210> 27847
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27847

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aaagtgtgac attgtatcgt taaaggtggc ttaaataaat taattagtat cgcctaaatc 120
agaagatgca tctatTTTTT aatatgatta ttaaataaat tgatgattgt tatgagatac 180
tctattacgt gaatcctaaa atttatgcaa tatgcatgat acttgaatat tacattctat 240
atatatatga tggccaatga ttatgctttg attgctgagt tggatactat tttgggatgc 300
ttattgtttg taagttgtgt gttgcaggtg caatttgtgt ctatgatgat ctcatgccta 360
atgtatgtgc ggaacacgtg gtcacatgtc tttcatagac tccatggata tatgaatctg 420
gatgtg 426

<210> 27848
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27848

taaaataact taatgccatt tacctacgga attaagaaaa acttaatggc tgagtgtaac 60
tgaaatagtg gcatccanaa gtcaccacaca acagtcaaca agtcaatcac catttggtct 120
tccataatgc tgatgcctan gttgccaatt gggcccttat tacaacttga actaaaccta 180
actaaagccc ttttaattga ttaacccaaa acatatgttt ggtcaaccaa ctttacactg 240
attgggccat tatctagaca aactaaacac tctaaaaatt gagacaaaagt ggtgtcatat 300
agtcctcctc catttgggcc atgatacaac tcacaa 336

<210> 27849
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27849

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 accaagtaaa tggagcatta ttaaggtcca acgcctttaa attatcacct ttcaagtaaa 120
 aagaatcgct tggttcactc ttaaaaaaga actacgtaag tctaatttcc tcttcgatgg 180
 agggtagcgt ggagcaaaag cccagctttt atcgacctca aaatataaaa agatataaaa 240
 ggtaagataa cacaatttca caattctaaa anataggctg ttgtcctttg agacaaacgc 300
 aagaggtgct aataccttcc tcatacataa atacaactcc tgaactttga attttcattn 360
 tgaccggttt ccttcgattt ttctgacgtt ntccacacat aaacgttggt gacgactccg 420
 cgcatctt 428

<210> 27850
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27850

agcttattaa tgctaagcac taacagtagt tntgtcatag aagtcatgtc tagtcataaa 60
 acttgtcaca taagatttct tatcttgtgc tgaattttat ttttttgttt ctttgtctaa 120
 ctcatttggt catgagtgtg tgaaattctt ttagcctatt atttgatttg agtcaaactc 180
 ttcatgttaa ttagtcctta acatgttcat gcaaaattct tagagagtct ttgattgtga 240
 accttttctt gaacttttag gtttccttat gattgtgtct attggtgaat ttgagtttgg 300
 tgattgaatt gctggctgaa atgttgatcc taagtgaata ttgaacttct aaaactgtgg 360
 taaacaatcc tagtgagttc aacatacata ggaaggttca nagtaagccc aatgcaatca 420
 atataccat 429

<210> 27851
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 27851

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agtgcaacca agtttgcccg gaagttgctg tacacattca ggcacacacc ttcttggttg 120
atttccatat tcttccaatt tgcggagctg acgtagtgct agaagtacag tggctaaagt 180
cactgggacc tgttctaaca gactacgcaa ctctcaccat gaaattcatt tataacgata 240
aattgattaa gctcaagggt gatcgtgatg canatattga tcagatatca ccatcacagc 300
tgcgacgctt tatgaacaca ggtaacacta gtacctatct tcacattcag cttgactctc 360
atcatcccaa acccttacca ttgactcact cgataccggc aattcaaacc ttactcacc 419

<210> 27852
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27852

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atagcggctc ttgtctttct tggaaggtag catgggatat ggtacttccg tatcctcatt 120
cgaagctttt tctttcttct tctctcttgc ttctctcactt ctactctttt ctttcccttc 180
tttatttttt tcaacttttt atttttcttc atttttcttt tctacctcta tttctttttg 240
ttggtcattt atttctttct cctcgacaat tattgggttt tcactctcct gacttgtcac 300
atctattacc tctctntct tntctcaat gccatccttt acaacaattt gtttctccaa 360
agccacotta tctctatcct caactaccaa acatttcttg tttcttgtca tcacaacatt 420
aca 423

<210> 27853
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27853

agcttggtatg ttttgtttta ttttggaaca atgggttaaag aaaaagaatg gaaagttctt 60

attacaaaat gtatcatttg aagtttcaaa tgcatttcta ttgtgatatt ggataaaaaa 120
acaactaggt gttttatcca atgcaataca taggataaat ttttacttta taaaaataaa 180
tttataataa ataaatactt tttaatatat aaagtatatt ataattaaaa tttataataa 240
ataaatcttt ttttgaactc aatagataag tatactttaa aatataaatc atattntaat 300
atcaagttag tcatcttgat gataaatcac cttagtatat atcttatatc tggaagaatg 360
gacnataatg ttagacagat ctataataat gtactcatca tgttcaataa actaaactag 420
atctcttgat aatat 435

<210> 27854
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27854

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gatagggtta aaagagctat ggaatctgtg attagaatcc caacagctta ttcgattccc 120
actagggtcc cccaaaaaat agaaatttgg aattttatgt gtaaggatga ttaattgggg 180
gattggttta tttcatctga aattctgata agattattta gttaaactta aatctaactc 240
gattattgtt aattctatgg ttaaaaattt aaacctatac tgcaacttat tatgtttgca 300
tgactgtatg atgatattgt ttatctatct cacattctca atatgatatg attaacagat 360
gattttgtgt tttcttaatt tctaattata agatatttct aattaattta ccttcctaac 420
aaaatataac ta 432

<210> 27855
<211> 280
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27855

agctagctcg ttgatattac atggcttang cnggagactc aagggggaga caccgnatgg 60
agccagcggt gtgtcgcta gatagagtaa gtgtagcata tcagacatac cttccagcta 120
cacgactaaa tgagatacta ataacatatc tttcaagacc ctgagagaaa aaaagcacc 180

actgtcagag agcttgatag tattaactga gatgaattag aaaagcacia gctcatacag 240
 atatagataa agaaagagtg ctctgtgccataagcatgg 280

<210> 27856
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 27856

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 tgggtacctgg agatatgttg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccaaaaa ccaagcttga tcaatcccga cccaaccgg gcatagtccg tcagtgagaa 180
 cctgtgacgt acctaaagag gcgagctctt ggagtcacac cgataaaaaa acaaagaccc 240
 caaagcaagg aggcttgtgt ggtggctggc cagctatgga tcttgagtaa tatttggaa 300
 atgacctctg gcaatcgatt accaagggtg tgtaatcgat tacaaggctt ataaagtctc 360
 gaatcgatca aacagttaat gaaccgaaac gaacaggatg ttactgggta tttgagtaag 420
 gaaagttgt 429

<210> 27857
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27857

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 gaaggaataa aagagggaga gaagttgaac tttgaagtgt gtctcataag actttcattc 120
 atcaaagtta caacaagtgt tactcatgct tctatttatt gattaggtag cttccttgag 180
 aagctttctt gagaaaacat ccttgagaag cttctttgag aagacttcct tgagaagcta 240
 gagcttagct acacacaccc ctctaataac taagcacacc tccttgagaa gattcctaaa 300
 gaagctagag cttagctaca cacacctctc taatagctaa gctcacctcc ttgagatgag 360
 aatctagagc ttagctacac cncctata atagccaagc tcaccncat tccananata 420
 catg 424

<210> 27858
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27858

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 gtgacaggca tacaagagtt gctccatcct attaacgtcg tgaactttgc acagcattgc 120
 gttctcatca ttggtgctgg gagagagctc ctatcttacc caatgtacat aagaggacag 180
 aggataatgc ctgaaacgct ttctatctat atgtgactac acatggatat cttcactatg 240
 gtatgtcggt acgaaccaag tatgatcccg acgaataaca tcagtgttgg atccactgtg 300
 acacatcaaa agtcgctgct ctcatagagt gctgtcaggc acaacgaaag gctcggcctt 360
 tcctcaatcc atactggcga ccattaagat taccataatc tgaggactac tcttaacgac 420
 taacttn 427

<210> 27859
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27859

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 tgcttctatc tggttgtca gacttcattc caaaatctgg acatttcttc catctagatg 120
 tagcccttgg ctogctcgcg cagtttttcc atgctactga gtggtttctt gcacagattg 180
 tctgtgaact tgtcaaggca tagtgcgagg agcatggaat gtaatgctac ctcggcgttg 240
 agattttgga tctggacggg tgtgtgcccc aatctgtcca tgaaatttct gctcattgtt 300
 tacttgtcag agactggcca aggcggctga ggtcatatgg tgagacctac tgggtggtga 360
 ctacgcacta natcatntga cgagggtgtc acagctatct atggacct 408

<210> 27860
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27860

agctntattg atgattataa ngccccaaag ctgatggaaa cccgaacctt gtgctatcga 60

gaactgctca tctgtaataa ggttgatgc aaatctggta gagaagatcc cattacgttc 120

agctccccac agtcacgtgt gcttcagatt gccacttatt ctgatgactg cgatatgac 180

aataaaaatt aaagctaccc ccatctcact gtcgaacaaa tgtcatctcc aagagaaagt 240

ccattccac ccattttcag aaaaataacc catgtcttac acaatgtgta atctttggga 300

agagattagg tataattatg gagattgctc tntaagatgt aaccgcgtcg caaccaagg 360

gtcttaccaa agaagaatat ggtctccct acccacc 397

<210> 27861

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27861

agctttgttc tctaactctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60

ttaccctcgg aagcaaaaaa agaataagagg ggaaatttcc aatcaaagaa aaagagaagg 120

aaaatttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccaatca aagagtggga 180

gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgaggaga aagcaaaaag 240

aaaagaaagg aaaattccca atcaaagaat gagagaaagt aaaaaaggaa gaagaagaag 300

gaaagaaagc tctgatcag ggatcgaagg anaaacagaa gaaatgtgca gagaggctct 360

tggaccggac aatatatgaa caatacagaa ttgtcaccaa atgaacaaaa aag 413

<210> 27862

<211> 430

<212> DNA

<213> Glycine max

<400> 27862

agctttgttt gtaagagaga gaccgatcac gagcacatag catggtttta aaagaagagt 60

tagccgtttg ctcaagggtcc aaaagaaact tgtcacagtg tttatgagag acagagacca 120

acatgttagc tatcatcacc aagtaccaag aagaactaag tctagccaat gccacgagc 180

atagggtggc ggacgagtat gcccaagtgt acgcggaaaa ggaggctaga ggaagggtga 240

tcgactcggtt acaccaagag gcaaccatgt ggatggaccg attttctctt accttgaatg 300
 ggagtcaaga acttccccga ttgctagcca aggccaaagc aatggcggac acctacttcg 360
 cccccgagga gatccacgga ctccctcgact attgtcagaa tatgatagat ttaatggccc 420
 atataattag 430

<210> 27863
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 27863

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 ttgttcattt tcgagcgtct gtatatgtga tgcgcctgaa tcggacatcc gagtgaaaag 120
 ttatgaccat ttgaatttct cgagagcttt cgatgtttaa ttttgagcgt ctcgatataa 180
 tataagcctg aatcggacat cagtgtgaaa acttatgacc attttaactt ctggagagct 240
 tccgttggtc attttttagc gtctctatat gtgatgcgca tgagttggac atccgagtta 300
 aaagttatga ccatttgaat ttctcaagag ctatgcgtgt tcaatttcga gcgcctcgat 360
 atattataag cttgaatcgg acctgagtgt gaaaagtatg 400

<210> 27864
 <211> 180
 <212> DNA
 <213> Glycine max
 <400> 27864

agcttatgac tatttttatt ttcacgagag cctacgacgt gcacggtcga gcgtctcgat 60
 atacgacgtt ccggaggcaa accgtcatgt gataacgtac gaccatgtga atgcctacag 120
 agcacacggt gctcactatc gagcacgaca acagacgagg agccggaagc ggacatccga 180

<210> 27865
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27865

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gacctcaagg tgatggcact cacatTTTTT agattctgca ccgtttgtga aggcaatttg 120
tcagaatatt gggactgagc ttggttcaac tgagtagcct tctgccgtat ctgatttgtc 180
ggactctgaa tggaggctct tgtctcttgc tgaaatttca tattctggat ggtcatttgc 240
ctcactaact cctctatgga aggttgagaa ggggcctcag atgcttggtg tctttgttgt 300
tgctactgca ttggaggagg aacatatggc cttcttggac caacaacatt ctggaagggg 360
gggataggct cgtgntctac tgatgttggt gtggaggatt ttcccatctc acatttggat 420
ga 422

<210> 27866
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27866

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tctggagggg gcgtttggcg ttgcaacaaa gttgtcaatg cttctgtgat gcgattgaac 120
ttggacacct ttgccagttg catatgggtgc atcttttctt gtagattgat atattttttt 180
ctcaataatg tttgcatttt tottgacctc aacttgtagt tctcttaggc gtgtattctc 240
tgccatgatg tgacaagagc accaatgtac gatatgtaat acaacagagg aaaaaatgga 300
aaaatgattg tacgttntta ttgctatggc aacgcaatat caactctcaa ctagtgtagc 360
tgagaagaat agtacaattc ctatttgaaa act 393

<210> 27867
<211> 428
<212> DNA
<213> Glycine max
<400> 27867

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tgatgaatga gagtcttgtg agacacaact caaagttcaa cttctctccc ttttcttccc 120
ttcaatttcg tgctcccgcc ccccgcccta tctctttctc tccctctgtc ttttcttcca 180
tggaagcatc ctctccaaga ttcttatcca aggtcatctt tgggtggtgaa gctccttctt 240

atcatggctg attccttagt ggatggcgcc tcctctcacc tcttctcctt tgtcttccgc 300
 tgcattctca tgggtgaaata tcaccattga aggacctcat tgaagctcaa agatccagcc 360
 tccatagaag ctccacaagc aagcttccat caatttgtga tgaggaaactc agacctgaca 420
 tagtcttg 428

<210> 27868
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27868

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 gggttcaggtg caggtgctgc tactgatgga ggcacttcaa attgtttgtc ggacctcaag 120
 atgatggcac tcacattttt cggattctgc acagtttgtg aaggcaattt gtcagaattt 180
 tgggactgag cttggttcaa ctgagtatcc atctgcccc tctgattntt tagactctga 240
 ataaagactc tgggtctcttg ctgaaattgc atattttgga tggtcatttg cctcactaca 300
 cttctaagga aagttgagga ggggccttag ttgcttggtg tctttgttgg tgttgctatt 360
 ggtgctgcat tggaggagga acatatggct tgctntgacc agcaacattc tgganaggag 420
 ggacatg 427

<210> 27869
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27869

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 atcaaaatct tcatgattta cattctcccc ctttttgatg atgacaacca cctgtaggtt 120
 aggagcaaca acaaagaaaa tatctatttg catatagttt actccccctt ggtttttaca 180
 tgattgctta tatgagacaa ttgaagattt catatttttc atatataaaa agttgtctca 240
 taaaacaata gataattttt cttactattt tatcttttat ctttctctcc ccctttgtca 300
 acatcaaaaa caaatcatga atagagagga gaataccact tgttggaatg tatgagaata 360

agtgatacca aaaggcatta naacaatcat tcaatattaa tcaagcaaaa acaagtacaa 420
taacacatc 429

<210> 27870
<211> 215
<212> DNA
<213> Glycine max

<400> 27870

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taactccttg tgctctgatg ccgcccacga taggtattat gaggcactta atgcctatga 120
tacgtggtat gatgaatgtg tcgagtgggtg caaccactta ttgtcacatc acccatgcat 180
tctacatcat catgactgac atacgtaggg actga 215

<210> 27871
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27871

agcttgatgt gtatgtgagt tatgttcgtc agtgcttcga ccttcacact ccatacctcat 60
agatttatatt attattatat tttaacttta agccttgat ttggctatgt ttttatgaca 120
ttattctctg aacatttggg attgttttta gtattttata cttagttaat tacgactgaa 180
catggngatt atatttatatt tctcttagat gtatatgatt atgtgttagt tattttgatg 240
atatatgtat agtttcatgt acttacattt ggtattatgc tttgtgtatt ttttaaaact 300
atztatgtat gattntatatt tacgcacttt ggccttttga tgttgccaaa gggggagaga 360
naatgggtat tttagaaatc aagatattat atnttcaaag c 401

<210> 27872
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27872

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taatcgatta cacagtgcaa actttgaatt caaatTTTaa tagctgttgt aaatcagttt 120
 tggccactgg taatcgatta catcctctgg taatcgatta ccaaagagta aatttggtga 180
 aaaagacttt ntaacttaaa attcttggcc aaaccttttg ctacttcaat tggaattccc 240
 ttctatttta atataccctt tctaagactc tagagactgt cttgatcatc catcttcaat 300
 atcttgaatt tctttgtctt gaataaagct ttgagactgt gagacgcatg tgaaactttg 360
 gcatcatcaa aacattcagc ttgatccttt gtctacaatc tccncttct ttatgatgac 420

<210> 27873
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27873

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 catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120
 cctgaaatTT cgaagtccca ctogtagcca cgcacttcac gaccccgaaa atgccctcct 180
 ttcgcgatTT ggggcagaaa tgagcaccaa aggttgagc tttgttgggg tttcaatgga 240
 gaatgagggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaagt 300
 gtgggggctg agtgaagaga gagaaaagct ttttggttnt taaataaaag ggttttctct 360
 ttttctatta ttntatttga gcaatgccac atgtctccat ttgagtggag caag 414

<210> 27874
 <211> 173
 <212> DNA
 <213> Glycine max
 <400> 27874

ctacgtggg cactcataca atgactatgg catcaattac accacgcaac tggtgagagc 60
 tggtagccat ctctgtagtt aaacatctgg ggccactggg aatcaagtcc atactgtctc 120
 caccaatgac cacatatatc atacgtcgat ccatactact gagctcttca taa 173

<210> 27875
 <211> 559
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27875

ctcacacaca tcacacgcgc accacgacta accagaataa taangaggaa ngaaaggacg 60
ataaaataaa tnnaaagcgc gcgggggncgtg agacgctgca ttgcacgaca catagaatac 120
tnaagcttca cagagaagca ctacgtgaaa gcgagacaag gaggctgttt gatgccggcc 180
ccggaagagc gcgtgcagac aaatgcaaac cggagaacat acatcaaaaag cgggcggaag 240
gagaacaacg acagatgctg atgacatgac agaaggtaac cgccaaaagt cgaccggagc 300
gagagagacg ctgcagtacc gacaacagag acaccgaga gtcaacagaa ccaatttgcg 360
agcaagcaag aacaacaaac gagcgaaaca gaatgatgct gccaaagaacc cgagacccaa 420
cgggacaagc cctttctgac gaacgcaaac accactaggc aacccaaaacc agcggagaca 480
cccactgaaa caccggaatg agacgaccct tgaaacggaa cacaaaagat acacaaacga 540
gcacacaccg gaaaagacg 559

<210> 27876

<211> 368

<212> DNA

<213> Glycine max

<400> 27876

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gttgatcgct tgaaaaaaat tcagaatgtg tgtgatcgaa caattgggca agaccgaaga 120
aaacatgtgg accatcattg accaatacaa agagaagcta tgtctagcgg catcccatga 180
acaacggcta aaggatgaat atgcagtggc atcaatcctg cgagcagaaa tggaagcaag 240
agatagagta attgattcat tacacagaga agcattgatg tagatggata tgttcgcttt 300
caccttgaat ggtagtcaac atcttctgag attgctagct aaatccaagg caatgatgga 360
tgtatact 368

<210> 27877

<211> 551

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27877
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 ggggggnggc anaaggacaa ccacggggccn acaaaatatt cgtggacccc acacagggac 180
 cccaggagcg gggcaagccc tcaacgccac ccccggaaaca ggagcacgaa cgcaataact 240
 gatagacgac agcgaaccga ccaaaaaggg aacacatgcg aaccgcgcca cccaccggca 300
 ggaagacaag gaacaacaaa gccacacacg aacgacaagc caaaagcaac gactagcact 360
 aaccgacagc aacaggagaa ccctaacaac aacagcaagc taacagccac aaacaacaag 420
 ccaagaacga ccgggacagc caaaaacaac ccctacgaac aagacccgca ggcacacgca 480
 accctgaaaa aaccagagcc agtgaaccgc aacacaacca aacacactgg aaagacgaac 540
 acacggcggg n 551

<210> 27878
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 27878
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 cagctcgctt gggcaagcta ttgtgcaacc tccacccttc atttcatata aataagcatg 120
 agggggctga tgagacaggt ccaatatcat atattacgag gtattcactg aaattaatga 180
 gaacaaggag acagaagaac acaaatcaag gccgaggcat ttccgtaacg catccttaac 240
 atttccgaga tcgattctga ggtc 264

<210> 27879
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27879
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 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120
 attatgatga tggatggctc anattctcac aaaggtaaac tcatcacttt caaattgagc 180

tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacaa ttacccattt cttgaacata tcctataatt caaagaaaaa 300
catgcaaagt cgtacatgca cacaaaattg acccaaaata ttaaactaat aatccgacga 360
aactaacaac attaacaaat taacacaact aacaaattaa canaaccaac aaaactagc 419

<210> 27880
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27880

agctttgtan attgtcaagc accattgcta attccgcgtg acatggcatg cagaggggctc 60
tcttataatt gagttgtggt ctcaaatac aacattacct atgatcattt aaactcaaga 120
cagaacaaga agactacatg catggaagat aactttactc gcttgatgga aaactttacc 180
tatgatccta tggaaatctc ttgatgtcta cggattgggt gaggcacgca tgagccactg 240
caattgaacg aaacactgag attatttgtc gatccagcct atacaataat cttatacgtg 300
aatacttaag cttctatata tcattgacac cttatctgat actggttgat tgtctttcta 360
ttttaccact cttaatcaag acaagaaaaa taaact 396

<210> 27881
<211> 306
<212> DNA
<213> Glycine max
<400> 27881

agcttgttct ttttatagcc tgccctgcgc cctacaagag ctgaccttcg gaagcttcac 60
tgccctgcgta actcccgac ccgacgcac ccagccgcg tcgacacacc accccttacc 120
cgcagttcgc acatgctcgc ttcgtgacga gccccggcaa cgcacgaacg gcggagacga 180
gctccgacaa cgcacgaaca agacgaatat gcgcgaatga agaacacgaa taagacgcgg 240
gtcagacctg agctttgtat tgtattttgc tctgagtttc ctgctatttg acaccctatt 300
tctctg 306

<210> 27882

<211> 416
<212> DNA
<213> Glycine max

<400> 27882

agcttctctc ttttaattttc tataaatagg gggagaagtg aagttgaaaa gggttcagcc 60
ccttatgcac ttctctctct ttcgaatctg cttacgaaaa ttgtttccgt gaagaaaatc 120
caagccgagg cgcttccgta acgttttctg aacgtttccg tgagtgattt cacgaagggt 180
tttgaccgtt cttcgacgtt cttcattcgt tcttcaccgt tcttcagtct tcaacgggta 240
agtacctcaa accaagcttt tcgattcatt ctatgtacc gtggagggtcc acatgagggt 300
tcacgttat ttattctcgt ctcatttact tattataccc ccttttgacg tgcttaagcc 360
atcttattta agtcatttct cgcttaacct aacaatacta taaatctcca ccgatac 416

<210> 27883
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27883

agcattactg tatcgtangc ttggtacaat tgtggcatcc caggaagtta gtgcttagtc 60
ttgtcttggt ccttatgcat tactttgaat gagactgatt atagacttgt tataactaaa 120
atggtcatta atgaatatga ttccccactt acagaacttc atgaataaat taacatgcac 180
tagatatcct gaattgtttg agaactactg ttctaaaact ttgcagtgag aagcatcatg 240
ttactcccaa agagagctgc ataatggaag atttatctat attcaagtta ttacttttca 300
actntccatt acctttatag tgatgatggg atggcaacta cagcctcatg atactgtaga 360
tgcaagctca taaagagtca ataatccatt ccattctcat gtttttgt 408

<210> 27884
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27884

agcttagctg tattcagatc gaatngaagt tagcttagct caacctcggc cagcttagtg 60

gaccaaataca acctcagatg caagggttgg gcgctaagcg cttgagactc gcaacttagc 120
gcatgaacag agatacactt agcgcgaggc ttgcgcttag cgaaaggaat attttttata 180
aaaaaaactt ttctaagtta tttttcagtc ctttttccaa gaaattgaaa cccttatgct 240
aaacattcaa agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg 300
atttaaagtc atganaaaaa aaacaaanaa aatagaaatt aaaagctggg ttgcctccca 360
ggaagcgctt ctttaacgtc attagcttga cgctnttacc tcaactgggtg atcttatgct 420
ttggttctta ct 432

<210> 27885
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27885

agcttcacga tgcattacca ttggtagcag tatcaagctt cttttgtgca tctttgtttc 60
atttttttcg cattcctttc atccattca agtaagtgcc ctctccatct aatttttacc 120
ttcgctgtg atgattgggtg ctttggttga tgctttcttt gcaatgtttg tgagatgagt 180
tgtgtgcaaa tccatgatca aaatgcttgg attggtggct gtactggatg gctctaggcc 240
tatgttttgt tcttttaciaa atttgcatgt catgtcgctc cttatccttc atttatacat 300
gttttaacat gtgcacacca actatntgat gaaatgtcac aatggctatt ctatgttata 360
ttttaaaact taagtgggta atgatctcta cacatgttca tggt 404

<210> 27886
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27886

agcttgagta tgtctctctg agagagaaga taaatagctt gggaagtctc tatectcaag 60
cttgagttag ccaccgtaga gtgagtcgat ccaagagaca agaatgaatc cacacacaca 120
cacacacaca cacacacaca cacatatatt taaatttaga caaataattt caatttccat 180
agagaaatga catatgacaa tcgtttaatg taaacattaa gtacaattta atcatccatt 240

tatctagtta ttcataatttg tttggctaaa ttatctatat atataaagaa aggacaagag 300
atggagtagt aagatatata aagtgtataa tataaatgtt gctaaggatt gtaaagtgtg 360
gatatccatt tcttaaccac gataggggtg aatgcaacta gctttgtcca gagagtaact 420
ntaacaactc tact 434

<210> 27887
<211> 457
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27887

actcgtccgg gatcttaagt caccgctgct gcagctatcc atgctttttg gccgtcgttg 60
cattggatat tttctcaaat gtatcttcat ccaccgattg ataaatgaga aagagagctt 120
tcttgtctct ctttcttgac tccttcaacg tctcatttac accttggtt agcgaggctt 180
catcttgctc ctggaagcca ttctctacga tatccacac atcttgagct cctagtagcg 240
ccttcatctt gatactccaa ttatcatagt tgttctttga gagcatcgac atttggaag 300
gaaaacctcc attcgccatc ttttgaggat cttgaagctc tgataccact ttgctggata 360
taaggctctt tatgtttacg acaaatgttt acgaatattg gagactntga atagacattt 420
gataggaacg agaattcttt atggagaaga gaacttt 457

<210> 27888
<211> 426
<212> DNA
<213> Glycine max
<400> 27888

agcttctttt catgtttaat aatattatct tcatgacact ggcccatgga tttggccatt 60
ggctaccag ttgcttttgc ttcattgtaa aatcattttc acattaaatg acaaggcctc 120
tttcatttag ttttaattctt gatgggagag tttttgataa tgatttgtgt cttttagtgg 180
tgttctccaa tcagatttaa tgtctcagct tcaaaactta tgctaataatt taatgtaaat 240
gtttgtttta aggattatta aggtgaaact ccaaaattct atttagagag atagcacgaa 300
aacacttaag aactgtatg tatacaagtt atgtcctttt ggtaactcaa gataaaatat 360
ggaatcattc atttcaacat gtctgctact gctaataatc ttatttatat catattaact 420

gcacat

426

<210> 27889
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27889

gtagatattt atagctagct tttgcaaatt gggaatctag ctacaaagcc aaagaaaatg 60
tattaaacag tatttaagca agtgacttaa aaaataaaaag tttaaaagtt gtataagatt 120
tgtttggttac tcggtgaaac agttttcctc attaatatgg caatatcact tcccaaacat 180
atcatccaca attttaatat tgtgcaactt caacatgatc ttctgctcca cctagatatc 240
ccaccaactt attgatgcat gtacataatt cccttataac ctactatca aattgcatat 300
gaggattgtc attgaactct gcattcgaaa agtggacaac cacatgtaat gggatgatgaa 360
gttgatatt ccatcttcgt tcaatgattt caaacacaca agtgtgtgtg cttattggat 420
tagtcaacat atan 434

<210> 27890
<211> 265
<212> DNA
<213> Glycine max

<400> 27890

agcttgtatt tcttttatat acatccttta ccaccttggg gatccgtgac tggatctaata 60
tgaacctcat gaccgcttgg aactoctaag catcaaact tgcaccaaca aatgttggaa 120
taccatcaga cctatgcacg attatcatga gaggatagga atcttctcca ccatgtgcta 180
tgtcatcaac aagtcgatca ccctatttca cccaagaacc atcatgctgt ttgttatatc 240
caatggatgc catgacaaca gcgcc 265

<210> 27891
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27891

agcgtgttta tttttatatg tagaggcatt acctattagg gtactagttt gaggagccta 60
 gtgatcatga gaggctgaat actttgttgg tcagaaagaa gttaacatgc ctcacacgag 120
 atggtttgag tgtactgagg attatgatcg tgaactaagc taccatccct tcaatgccat 180
 tgtagcggct aacccttaa gtaagagatc cctacatata tatgccttga tggtttagaga 240
 attggatctc ctatagcagt ttagagactn tatccatgtg tgtgatgtac ccctaacaat 300
 gcgagactaa gagctctgaa gattactact gagtagttag gagatatcag atacggccaa 360
 taagctgatc cttttctgaa gactaaca 388

<210> 27892
 <211> 291
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27892

agcttgatnn gtgagtagat tntagcctta gtttcacttg ggatattagt cacttcattc 60
 atggaaactt acaaagacaa acgcccgatc gaactgtttg atcattttat tcgaagatat 120
 taggattatt ttattatgat ggctgcccta tttttatata accgtggcta cagcgtgaat 180
 gatcggctag attttactat aagagtgatt aaacgagatt gctacgcaga tgattggttg 240
 acattcatgt tatcatttat caggagagat aaccgcttaa acgatcagtt a 291

<210> 27893
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27893

gcttcttcat aattacataa aaacataaaa aaaggggaaa atacataatt tcgaagtcac 60
 atttgcacac ttgattgaat gttgttgtcc cttgtgacga acgtgtgggg tgctaataacc 120
 ttccccgtgc gtaaaaacaa ctcccgaacc tttcacactt aaagtctgta gaccacacct 180
 ttccggatth tccgacgttt tcctcgaata aatgttggtg gcgactccat gcattttcct 240
 ttcttggaag acgcacccgt gagtctcgcg tcgccctccc gctgaaggct atgttgcgac 300
 agagaggaag agaagagcac gacattntgt gctctaaaag tgctctgaaa tctgaagggt 360

aattttcaga tgatcaaadc ttcaaaacaa tgcacacaca tgacatcta 409

<210> 27894
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27894

agcttatatt ttttattcgt tctttgagtg ttgttgaatc gttgtattca ttcaaacttt 60
 tgtttgtgaa agtcaagagt gacttagtgt taaataatac ttgggtgttc ttaaatttag 120
 gaagagttca aggggtgtgc agaagtgact agaagaatac ttgtatagcc aggagttgca 180
 ggacataata gttattttgt aataaaagtt ttgatcagta aaatccttta caatttgagt 240
 aaaggagaac tagacgtatc tctatttgaa tgaaccagta taaatcaaata attttttaggt 300
 ctcttttaag tagttctatt aagtattctc ttagcttact ttgtcactat tttctcatca 360
 agtgtttata taaaaacctt tgtgacaata ttgccttata tttattggaa natccaccta 420
 ta 422

<210> 27895
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27895

agcttatggt tttaatcaga ttttttgtaa tgatatacta tcaaatttcc ttcaaccatt 60
 tctgtcaagt tggacagaca caactaccta ctggaagccc tattttgttg ctgactagag 120
 ggagtaaatt tgatgatggc ttcaatctcg ggacaatgaa ttgtcttagg caattatgac 180
 tgacgggtcc aacaagagca atcttgctta tgaagaatga taaaccgatg atcaacaact 240
 ttgggtgttg tttaacacca tgactganac tcanatcaca agtttcacaa cattcacaag 300
 ggatcattgt agattgagga atatatgata aagatgaana ccttgacaca agcttanatt 360
 ctcaagatcc caatctcaac ttttgagttg atcatacaaa cttttgcggg aatggatggt 420
 gac 423

<210> 27896
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27896

agcttgaaag tcatgtgagt aatacttatg atttgtgcaa gttgttttat aagacattnt 60
 gttattttct tcttcttcct tgtcttgagt aaataactaa acatgtacta aagacatggt 120
 gtgtatttgg gggtatatca aaatgctacc cgttccaata tgaagtcaaa ttcttggttc 180
 caaggccaag agctaatacg gtgttgcata tctgatattg ctttagtggt cgaaagatta 240
 agacaggaat cttatgtgag ttagatatca tggattactg aaccttgtaa ggtangaaaa 300
 aaaaatagag aggagacagg cagcaaaaac attcaatagg gtagccctgt tttctttgga 360
 atttatattc atagctaana ctnttatgta actgttgta attntcattn tcttgatcca 420
 tgtttcatct 430

<210> 27897
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27897

agcttatgaa tttgttgccg agattcatat gtcctctttt gactgtacta agcctcctga 60
 ggagggttagc tattcaaatt gaaattgaat ggtgattata tattttatttt cctttccttc 120
 tctaattaca atgcttgat gctgctttga gggaagcaca tgaaaaggca gttcgaattt 180
 caatggcagc ctttactgct agtgctgtag gggttgggtc agtaagaaca aaatatgaag 240
 gcatgctgca gaaattcctc aaaaaggcat ttgaggtatt gtatattcaa aattatttga 300
 gtgcaattaa ctgattaaac tntgattggt aaaacttatt tgcatatcag agtagatata 360
 attgtttntt agtcaggat cttacaaatc cacaatttag tctgtgattc tggatacgga 420
 aatga 425

<210> 27898
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27898

agctttgctt ctacttttta taccactaa acgtcaaaca agattccctt catgacaaaa 60
 aaatgttctc tctaattctt agtcatcaca aatgtagaga gaccacata atagttaagg 120
 gagtgaatc ttattttctt catcttcaa aacattaaag tacatctgag agaagcttca 180
 ctatgactca ttatttatat atttattatt tatgacaatc atagggttca agatccggtt 240
 gattttctat cattgatcat ctaagaaact cttanaattt ttacatgtga tatcggaaca 300
 tagattatca acattatgat tctctaataa tgattttattc tttctcaatt atgaatgaat 360
 cctaattatc aaatgtaaaa atcttatttt cttctgcggc tatgtatgat atgttatta 419

<210> 27899
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 27899
 agcttctagc tctatggact taccttgaat taattccttt gatagccctt ttgagccttg 60
 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
 atatccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggggttt 180
 gtttcattgg acaacttggt ttgttggcta tgcttcatga tgtatttttg gccatacttg 240
 atgtacattg tatattggtt aaatgttggc catgctgaat gaaatgttgt ttctcaaagg 300
 ctaaagagta aaaaaaaaaa aaaaaaatc taaaaaaaaa agaaaaagaa aagcaataaa 360
 gttgagtga taagatctta aatggcaca gaatgatga actcttggtt ctactcttca 420
 tgtttaat 428

<210> 27900
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27900

agcttacata tttgttttac tgtntgccat gattattata tcgtttgtct cggtagaagt 60
 tcccccttcc cgttctttgt ctcagttttc atagattaac tgtatgactg tggtgtgtca 120

acatttacct ttatacgccc accttttatg tgatagggtta tatttttacct acctatggca 180
 ttaaaattta cagacaattc tatattctac tatgaacatg ttttttttgg tgtgataaat 240
 tcttcaggta gatatggctt gatcatgaat gtgtgtgcta tactgccacc gtctggtggt 300
 tccttgaagt cagactactg agctgttatt tctaataatat tgtgttcatt gtggctctgt 360
 gaggcttgaa tagtaccac gaggtgtttg tactgactat tgagactt 408

<210> 27901
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27901

agctagttca tttgagaaag atgcattatg taatgcatga cataatggaa agcaaactac 60
 agcatctttc anatgtgaaa atgtattttc tgcctcatcg gaggggaatta atatgcttta 120
 gttattggag attattactc tacatataca acgactctat ccttatcttc aaaatgtaac 180
 acttttatag ctattcaaact acttgccaag cttattcaat attgatgcaa gctacattgg 240
 agcttgtacg cctacgatct tcttcatcaa tggatacctt tgcttcttgg aagataaatg 300
 gcagcggaat ggac 314

<210> 27902
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27902

agcttgttta ttttatctga aattgagaga aaatgattat taaacacaca aaatggaagt 60
 actaagtatt tattacctat acttaacaga aaatacttat aacactacaa aataaccata 120
 aattggaaga gtttgataca atttatacaa gttttataca caaaagttag ttgtattcac 180
 cgactaacia ctcccccaaa tttacagttt tgcttgcct caagcaaaaa gagaacaact 240
 cacttgcct caagcgacaa caacatgcag tgactatgta caaagggtgta tgcaactaaa 300
 gttactgatt gcatgataag agaatgaagt aaaattccct catcacttgt ttttcacaag 360
 gtatacagtt atccaaagag aanaataaaa tgtaacctga acaatttgat ggagtttaggc 420

ataagacaaa t 431

<210> 27903
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27903

agcttggttaa ttatattgaa ttagcgatta cgacttagga gaatggcttc aactaaaatt 60
 acaactttat aggtagagca tatatatgta tcttggcata gacagcaaca tctggcacta 120
 tccatcttta gctatcaata agaaataatt tatgcactaa gctatggggcc aattataaga 180
 ttctttcatg gtatatacaa agtttttatac aactttcttt aaattcttaa ccttctctca 240
 tatctttagt tcacattaaa taggaatgta agaatgtagg aatggccaaa atctcatttg 300
 gatccaactt accaggtcaa caactctgac agctgctnta tcatatcttg ccttgatctc 360
 ctctgccaat gcctgtaatt aaaaatatat taaaaaatca catctaagaa tcacatactt 420
 ctaacaagcc 430

<210> 27904
 <211> 427
 <212> DNA
 <213> Glycine max
 <400> 27904

agcttattag ataattttgc ctaaatacatt tccaaatatg catgtgaatt aggaagcatt 60
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg tggcataaca caccaaaaga 120
 ttatgatgat ggatggctca tattctcaca aaggtaatca ctttcaaatt gaggaacaat 180
 taccatttctc ttgaacatat cctataattc aaagaagaat atgcaaagtt gtacatgcaa 240
 acagaattga cctaaaatat tataactagaa acccaacata actaacataa ttaacaaaac 300
 taacagaact agcaaaaacca aaaccaaaga actcctctcc ctcccatact taaacaacac 360
 attgtcctta atgtagcaca attaacagaa tataagcaat tagaccatca aatagaatcg 420
 gacaaat 427

<210> 27905

<211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27905

aataaagtcc ttaatgatcc atatcgtgtg tgtgtgtttg taattgcatt gaatgagatg 60
 atgtgcaaag ttgggaatcc taaattttgt tgttttgatt gaaatacaca taacccaaaac 120
 acttgtgtgc ttgagagaaa caatatactt gtgagaagtg aagcatgatt gatgattgtc 180
 atacttgcta acctacttta tctccaagtg agttcttgct tgcttctatc atgaaaacta 240
 tgaaaaatgt gaacttgaga attggaaatt gaagttgttt gaaaggatg caattgtctc 300
 agttattgtg gttggttaca ttctgaacat tgtcattgac ttgacttatt gaagtttagc 360
 ttacttttgc ttgaggacaa gcaaagctct aaatttgggg gacgttgata atctttatgt 420
 atacataaat can 433

<210> 27906
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27906

agcttggtgt taattcaaac aggaataact ttgtactcgg atgtctcatt atgtcccgtg 60
 atatatcgag atgcttgaaa ttgaaaacgg aagctcgtag catatgcaaa acacaataac 120
 tttttactcg gatgtccgat tgtgtctcgt agtatatcga gacgctcgtt attaaaaaca 180
 taacctcgta gcagattcaa acgaaaataa ctatttactc gaatgtttga ttgtgtccca 240
 tagtatatcg agacgctcgt aattgaaaac agaagctctt agaagatttt aacgacaata 300
 actgtttact cggatgtccg attgtgaccc gtaatatatc gagacgctgg aaattgagga 360
 cataagctct taagaaattc tatagacaac gactntatac tcggatgtac gatt 414

<210> 27907
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27907

agctttatga tgatactttg tacaacgcgg gagtttctat aaataggaaa aagtaaaatt 60
gttaaactgg taaaaatgtg tttaaagaga ttaatgtatg aaagtcaact taccaggggt 120
tcaggagcat ccagcatttc ctgagtaagt cgaagagtcc agatatgctt tctggatgaa 180
tgtctctgcc tgccacatgt ttgtcgctcc agtggtggtg tgaaatgtat gtcaaatacg 240
cagtgatggg cacaggcaaa aaagttgatg gtggttgact cgttgatttt caaatctttc 300
ctgaagttnt cgagtccttc taccaaatac actctttctt tgtgtcggtt gacccgtatt 360
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gtatg 425

<210> 27908
<211> 432
<212> DNA
<213> Glycine max

<400> 27908

agcttaccaa tatatattca aatgaagttt atgtttcttt gtgttctata tgtgtgccct 60
aagcatttaa atttattgac ctggaggata tgatcacttc atcatgtgtt gattagcata 120
tcaatagttt gcatatgggc actgacaatg ctttattcca ataactaaaa tgaagaataa 180
cttcatatga cttgtcctgc cagtattgtt gatgttgaga tcaagcctgt ggaagggtgaa 240
ctttctaaat cactgttggg aaacaacaaa tgctatttac tggactgtgg tgctgaggtg 300
tttgtctggg ttggtcgtgt gacacaagtt gaagaacgaa aatcagcctg ccaagccgtt 360
gaggtaaggc cattgtagaa tctataatct aattcatttc catttgtttg ttaaattgga 420
ttcattaatt ct 432

<210> 27909
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27909

agctntgacc tcatttctat tatttctctat tcttgggtca ttgtatacaa gttgggcaag 60
cgtgggtctta cccaaccgtt ccatgccac gatagaaagt actgacagct tgttatcagt 120

gttagaagtg agccagttaa tgataatttc tttatcaccc tctctgccac aaatatcact 180
 ttcaaccact gaagatgttg attgtggcac tttaccacca gatcctgata caactacaag 240
 atcactaggc tttttcaaac ctagattatc catccggctt gcaagtacag gtttgagatt 300
 cagattgagg ttgaacttgg agtctggagt gttgtatttc atccaagaca tcttctacgt 360
 caagcatggc aactntgagc ttaataagcc agtctctcac ttgcatattt ccaaactgtt 420
 tttgttcagc at 432

<210> 27910
 <211> 294
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27910

agcttcaatg tttcttatat catgtggtat caagagcata ttcattctang tgatgttctt 60
 ttgcttcttc tatctttttg ttcggtgaat tctctttaat tcctttttct tcatcttatt 120
 cttcatgtat atccccatt gtctagtggg taggcgcttg ttagaataaa atcaaaaaaa 180
 ataaaccgat taaatcttag aattacactt gttcctgcat ttctatgggt taaattttgt 240
 agaactactc ttgaatcact gttttgtggt gattttaagc tctatcactt ttca 294

<210> 27911
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27911

agcttcaaga tttatttctt angttgttca ctatgtttct catgttgctc cccttatctc 60
 taacacatgg aactaagggc gacctctagc cttagtttca tattcagact gaaactgacg 120
 agaacctctc catgaatttg tggagtgact catcttcgtc ctgctgaatg tttgtgagtg 180
 caactatagg caagtgggtg gctttactca tcatgtactg ngctccaaaa tgcacaataa 240
 gtgtcatgaa agaatctatc gagttccttg gcaaacgaat gtaccagtgg agtggtgaac 300
 cccttaggtt catcangaat acttggcaca ttatgacatc atcattcgtg aatagattca 360
 tttgtgtaac cgatgcatct atatgtctct ctggatccga gagtccatcg tatcaatcta 420

ttgtcaatgt ctt

433

<210> 27912
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27912

agctttacat tatatatattc aattgtgtta gcaacagaaa tttagtctca ctcgtttggt 60
gacattcgaa gtggtactat tgctagggca ttgtattttt ttatatgtgg tattggataa 120
aatggattct tcccacatgt atgagttaga atgcttgcct tatctttngg acctataatt 180
tctaaagtag ttcgatatgt ctgaaggggtg agattgaatc tgaatgctaa tctttttgtgt 240
atgcgtcctt atcagcttgg attaaaaagc tcttgtgtca ttggattggg agcaatctga 300
cgacagaatg caaataaatt ngacagttct tgtcactcgt aacatgacga agaatgagtc 360
aaaaccaa at taagcacata tgatacagga tgtagaattc agaagccctt gaccatgcct 420
atgatat 427

<210> 27913
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27913

agcttggtgt ttatgngta cccatcacat gtggtactag gtggcggtcg ggcatgggtg 60
cacaacaagt tttccacatc cacaagcat gcataaaccc accatcccct gttgccacc 120
tccaacagag ctacgtact cccacgtagc ccatactctc gtttctctca acaccgggtc 180
cccatcaatc ctccaagct tcccaacat caaagtaata ccacattcaa acagcacaag 240
ttatcacagc caagcaaac agggaagg caganaactc tgcccaaac accaaccaaa 300
atcacagctt ttcacatata aataccccag aacatttcc ttcgttcaa ttcgttaacc 360
gttgatcga ctccaaaata ttactggaag tctataatac ataagcctac at 412

<210> 27914
<211> 428
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27914

agcttggttaa ttatctaata tctttgaatg gtaaaaaaga gaaacctttc catgttccag 60
ggcaccaacc acatgtagta aatatcaatt gaccaagtat acctctagtg tttgaatctc 120
catcttcaac attagtctaa aaataaacga ataatttatt caaacaatta acatgattat 180
attctctcta tatttttagt tgaattagat aaagccactg aggattataa atgtaccaat 240
cacttgcccc tggctaagtc ttccattgtc tcattcaagt cagcttcctc ctaattgaac 300
aacttcaatt caatgtaacc ctcataagaa taataattaa atagaccaca gaacatgaat 360
gaattaattt aataatagat tcaacctgta tattgttcag actgataaat ntgtcaattg 420
tatctcta 428

<210> 27915

<211> 215

<212> DNA

<213> Glycine max

<400> 27915

agccttctttt gttatccgct cttggagctc agaagattcc aaaaacaaat gcctcttatt 60
actagctatt ttgaattctt tagttcttga atgtacaacc tttaaactgt agctcggttc 120
cctctttgag aatgaggagg atcttcatag gacttcatcc agctgatgtc tgaacgccaa 180
ctatcattca taactctttt catctttgac tgttc 215

<210> 27916

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27916

agcttgatgt gtttctgtct caatttatgc agatatccat gtccaactac aagagcacgg 60
agtcatccat caagaacctg gagatacaag tgggaaaatt agccaaacaa atggctgaaa 120
gaccactag cagctntgga gccaacacag agaagaagag cgccattagc aaggcaatgt 180
tgactagaag ctagaggaga gcacaaggag aagaagagaa agttgaagat aaccagtgtg 240

aggaaggaag ggcagacaaa gaaggacaga tagaggaaga agagaagaag atataagaga 300
aagaggaaga gaagaaggtc ttgacttcta agaacaaaag tcagctagcc cgagaggcta 360
ngaaagaaaa gccactaccc cctctaaagg agttcccata tccttttagtg ccatcaaaga 420
agaata 426

<210> 27917
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27917

agcttattgt gtaaattggt cttatttctt accacataga tacaaggcat ggggtggagta 60
tggattanga gtgtcaaact aatgaattgg ataatttttt tgaattgaaa tggatagcca 120
atccatttat gatccattaa taatgtattg caaaaatcta atttatccat aacttatttc 180
atagaaaaag gtccatccat tatattttat ttttttcaaa acaatatattt tctaaaacaa 240
agtgtaatat ttgtacaaat tcttacctg aaataccata gaatccaata tttatctcat 300
aaagacctat gtccaagtaa tgaacttgga actacttgat tcaactggatt gcaaaatatg 360
ttggatgggt cattatctat ccaataacaa atggtaatcc aattcaacta atgtanttaa 420
gtttattt 428

<210> 27918
<211> 423
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27918

agcttgagtc tttcanaaga cttgcttatt catttagtgc taatttctct gccttcatag 60
tttagtcagt ttaagatctc ttataactgt cagaaggaga aatggctctt taatgagctc 120
atctcactact gtgtgtaaga agaggaaagt ctgaagcaag aaaggattgg aagtgctcat 180
gttgtaagta cctctaaaga caagggcaaa agacaaagaa ctgaggagcc caagaatgaa 240
gttgctaata gttcaacaca taagatacaa aatcaagggtg acaactgttt cttttgcagt 300
aagcctgaca tgtgaagaag aatgtacca natatcatgc ttggcatgca aagaaagggt 360

tgcctaagct accagaagcc aattgattct gaaagatgga tatatgttgg agatggtaaa 420
tcg 423

<210> 27919
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27919

gcttctatga tcagtgcctt tggctgaggt tgctgatgag attgttaacg gttttcattg 60
cttgtgttct cttcttgatg ctttgtttga gttgtttcgg tgggtgtcatc actgtatccg 120
agctttgaag ctacaacatt tttggcagtg atggcctttgt cagctattgc tgtggttgct 180
gaggagattt tatctgtgta actgctctcg tttgatgggt cttagtgtgg ctctcaact 240
tgngtggtgg tgtangtttg tggngtattg gtttgagttg gatattctgg tagaaattga 300
tcatgacttc cagctgaagc acanagagta tgtgttgaat tcgttctaaa ttgttgtggc 360
aagtgttggt cattggattt tgttgaagtg tgctgaatgt tangttcagt agagaaagat 420

<210> 27920
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27920

agcttgcaag tgtattgact gtatattgag gattcttttt ttttagtttt ttatctttct 60
gtcaggggag tttcactagg tcccatgtca accctctaac atggcaacta aaaaatatga 120
gttacgtaag gataggatcat tcaagtcttt tttctaattg aatccagcta gtatcacttt 180
cgtacagtat cttctttatc acggtaatgc gaagtgatga ataaattaag aggtttttgt 240
tttcttaciaa ggggtgattaa attgaatgag tttataataa actaaatatt attattttta 300
ttntgttttg tgagttgtac ttcatatatg caacttaact tttatcataa aaaatagata 360
aattgtattt attaaatata gtttatgtat tt 392

<210> 27921
<211> 441
<212> DNA

<213> Glycine max

<400> 27921

tgaagataga gtcatagatg cctttataaa atctatattt tatattttgt aatcgagca 60
agtattattg aactcatcac ctcacgaacg aattctatta attattttta tacgggtaat 120
tctttggaca taaaacataa taacttgcac ttgaaggatc aaatcagtat aaagtaaaat 180
aaaggaggta aataaggaga aattgtttat ctttgaagga cataatgaga aattgttaag 240
aaaataatca aatactactg cccagttaga tactttgact tgggtgcccac cagcaattag 300
agtgcacga caatctctaa tttgacttag tgtgcattgt gcaacagcaa ttatagctct 360
caacgggcaa ggatcttact gccacattaa ctattgttgc ccaatggcac ttatatactt 420
acaatagtat tacacaatat a 441

<210> 27922

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27922

agcttattca cttatgtgtt ttttctgaaa ttcagttagg atgctattac tacaaattcc 60
cagcttgcta caatgattca agatagattt taaaaggagg ttttccatt tcttactaca 120
ttttcttttc tatttaccct angatcaagg attgtcttca tattattcaa taaaactctt 180
catggtagtc aaggatggga gataatataa atttatgggt ggacaaatgt ttatcagatt 240
tcaatgtgaa tcttcacaat attccatctc atttaccatg cttgttgaaa gctaattgta 300
catatcttat ctcaggtaat tcttctgtct ttctggcctc tatggaagtt tggtttctt 360
atatggctat ggagattcag aatacaatca 390

<210> 27923

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27923

actctccct taagaaaaag atatctttaga tgactcttga cagnaaaaca ttagcatag 60

aaaagatcct ccattattgc tttcctaaca tggcaaagtt gaaagcaa at aaatatctaa 120
 aacctaaccc taattttctcc ttcataacac ataacctgtc ccacaccatc caattttaccc 180
 ccttgctacc tcttttttct aaaccccacc aatatgaatt catcatcttt tgaagcttat 240
 cccccaacac ttgatgtata cggaaactat tcatgcagca cgtggggata tcttgcacca 300
 cataacttaat aagaactttg ctttcagcca tatatatcac cataccactc caagaatgaa 360
 tcttctatcc cat 373

<210> 27924
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 27924
 agcttttaga ccttttttat cattgatgac gaaagaacac ctcgttcagg gagttctgat 60
 tctgagggtc caacaataga agtaatcttc ataaaacagc ttctctcttc ttttgaatag 120
 tgcatacat tccaaagtcc aaatagtttt gctacaacat ccttcatctg cattttttaa 180
 aataatatac ttttatagga aggaagaaa ttacaacaac cagtottacg aattgcaatt 240
 aagcatgctg tagaaaaatc accttctgaa attatggttg tcctttctat ttttaactcg 300
 agaatggact gctctagacc ttcctatgtg ctatcgctaa tattagttga ctgcaccacc 360
 ttgagcccat gcaaacttcg gtgaacatc 389

<210> 27925
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27925

tattcagcga tattntagat ataattacaa tgaaattgaa gatgttttat ttaaaaaaat 60
 attttttagtg gtatttataaa tttattatga aactttatctt ttctaacaat aataatgatg 120
 caatatttat ataaaattta taaataaaaa tgtaaatata aaaaatatga atatatgcat 180
 atatatatat atatatatat atatatatat atgtgtgtgt gtgtgtgagt gtgtaaaata 240
 gagtgttcat ttttctattg cgaatattat attaaatatac tggttttatc tttaaaaaca 300
 aaagagatct ttatacttat atagttattg agttttaact ctatctattt gagcctc 357

<210> 27926
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27926

ccccacccaa aaaacaaata attaaggaaa gcaaacgccc ggagaacata ncannaaaga 60
 agagganttg agcctgaagt actggacacc cgacncgnac acgggaaccc cagagacacc 120
 agcagcacgc agcctgtcaa actttcagaa catgacgccc gcaaggcaca gaataagagg 180
 cgcggttaagc aaccggagac caaaaagac aactcggta cagagccaac aaaaccgccc 240
 atagcgcgag ggacgcagac aaaagagaag caggacgcag gcggaaccac atacggcgag 300
 gctcacgaaa caggccaacg aatacgcagt gaagaacaca cccaacacac gcactatatg 360
 ggacatccac agagacaagg acatacccaa agaggaaggg caagcggcca gaatgggccc 420
 tataaccaac aaggacagcg gagatcgcac cctaacgagc aacacaccaa agaccaaagc 480
 ggcacatcta acacgcccag ccaacaagga ccaaatatct tccg 524

<210> 27927
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27927

tgtagggtta aagtctcatg attgtcacgt gtcacgttta caattgttag ccgnggctat 60
 acgagacatc ttgccaaaca aagtcagggt agcgataact cgctgtgct ttttattcca 120
 tgctatatgt agcaaagtca ttgatcctgt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagatgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctggtca gagaaatcaa atgttggtgt cctgtttatc tactgtggat 300
 gtacccggct gagcgataca tgaagatctt aaaagggtat acaaagaatc tatatcatcc 360
 agaagcatct attgttgaga ggtacattgc agaagaagcc attgcaattt gttcataata 420
 cttatagaat gctaaacctg tt 442

<210> 27928
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27928

gcttctcttg gtaagaatgt gggctctatt tcgtagtttt gcatggncac tagcagccat 60
 gttcttttatt aattccatag ctcttcttgg ggtcttcaat ttgatctttc tccctgcaga 120
 agcatcaaga agctgcttgg actgcggtct caacccatca ataaaaatgt tgagttgtat 180
 cagatctgaa aatccatgag taggtgtctt tctcaataag cctctaaatc tttccaatgc 240
 ctcaattaaa gattcatctg gaaattcatg gaaggatgaa atggcagctt tcccttcagc 300
 tgtcttagac tctgggaagt acttcttcaa gaattttctca actacttcat cccaagtctt 360
 gaggctatct tctttaaacg aatgaaacca cc 392

<210> 27929
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 27929

tctagcttta aaccacatta tataactttt tacacagggg ctctaaatat aaaatcaata 60
 aacaagactc tttttaccgt aaaaattcaa ttttaagaaat tttgcattcc tcatgcgttc 120
 gcagcctggt ctgttccaat caatagctat attttgtttc ataacttttag atatgcaatt 180
 gaaaattaat agaataaggt ctattgcatt taaatgaaat aaaataagtc tcaattgaaa 240
 ttttagaatt ttactgggtc tcaagagttt tgcatttgcc tttcgtaaaa attgatcaat 300
 attgcagaac taaaatgttg acagattttg gtaatatctt tgcaaccttt ttaattcatc 360
 tactt 365

<210> 27930
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27930

tgaagaaaga gtcatagatg ctnttataaa atctataatt tatattttgt aatngcagna 60

ggtattattg aactcatcac ctacgaacg aattctatta attattttta tacggttaat 120
 tctttggaca taaaacataa taacttgcac ttgaaggatc aaatcagtat aaagtaaaat 180
 aaaggaggta aataatgaga aatcgtttat ctttgaagga cataatgaga aattgttaag 240
 aaaataatca aatactactg cccagttaga tactttgact tggtgcccaa cagcaattag 300
 agtgcacga caatttctat tttgacttag tgtgcatgtg caacagcaat tatagctctc 360
 aacggtcaag gttctcactg 380

<210> 27931
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27931

tcaagctttt atgattatgg ggtacccatc acatgtggta ctaggtggcg gtcgggcat 60
 ggtgcacaac aagttttcca cattcacaaa tcacgcataa acccaccatc cctgttgcc 120
 cacctccaac cgagctcag tactcccacg tagcctatat cctcgtttct ctcaacaccg 180
 ggtcccatc aatcctccca agcttcccca acatccaagt aattcaacat tcaaacagaa 240
 caaactatca cagccaagaa aacagggcaa aggtagaaaa ctctgcccaa aacaccaacc 300
 aaaatcacag cttgtctcac ttaaagactc cagtaacaat tccttcgatc cagttcgta 360
 accgttgat cgacgcgaan natttactgg aag 393

<210> 27932
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27932

tgtagggtta aagtctcac attgtcacgt gtagtatttt ataattgnca gncgaggcta 60
 tacgagacat cttgccaac aaagtcaggt tagccataac tcgcctgtgc tttttcttcc 120
 atgccatatg tagcaaagtt gttgatcctg tcaagtttga tgaacttgaa aatgaggccg 180
 caattatact gagccagttg gagatgtatt ttccccctgc tttctttgac atcatgattc 240
 acttgattgt gcatctggtc agagaaatca aatgttgccg tcctgtttat ttgcggtgga 300

cgtacctggt tgagcaatac atgaagatct taaaagggtg tacaaagaat ctatatcatc 360
 cagaagcatc tattggtgag aggtacatta cagaagaang ccattgaatt tgtttggaat 420
 atattg 426

<210> 27933
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 27933
 atgatctcag catcgttgtc aagaggttca acaaatttct aagaaacata ggatgtaga 60
 gataagcaaa tttcacatca aagatcagag tagaagattc atcctctctt ccaaagggtt 120
 atgactgcaa tcaaccagga catctaagag ctgtttgccc aagtttcatg acaataatat 180
 agagatctga aaagaaaact ttcaatgata agagagcaaa cgaggcctac attacttatg 240
 aagacaatga tatggactca tctgaagatt caaaaaatga tgctgtagac ctgattctga 300
 tggccaagaa ttatgaaagc gatg 324

<210> 27934
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27934

tcaagcntta acataattat gccattacc aataaatcta aaataataat agattataaa 60
 taataataga ttttttatta aaaagtgtag tataaattct tttgggtcta tactatgatt 120
 taaattgtta tatttagtat gaagtattaa cggaaaaaag aataaataaa aacttggttg 180
 aattttcctt tcaaaaccgt tataagagca ttttctagac gggaacatta gcttactgca 240
 tttctacacg ggaacatatt aacagttagg tagttttata tatttacagc ggtaatttct 300
 aactactata aactttatgc ttgcaaaaac cgcttaagtt caccggttct tttattgttt 360
 cagcggtttg aggctgcttt tcccggtttg a 391

<210> 27935
 <211> 415
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27935

cgtgcactta tggagaagaa atttaccttg ntctcaaaga gcacatatat aagagagggc 60
atttattaag aacttaaaaa aaatcattag aattataaaa ttacattatt cttgacgttt 120
tatacttttc aatcatttga caataaatat tatgattagc aagaccata atattaatat 180
atgcatgtgt ttctatttgt ttattttctc ttttcgtttt cttgaatatg cttgtgactt 240
gcaatgatat atatatatat atatatatat atataataac tatgacatat atcctcataa 300
gggtgaataa acaataaaca ttaatatgcg tctggtatac gtataggggt gaacagatgc 360
cgccagagcc gtagattgag atggctgact atctaaaccc aatattagag gggag 415

<210> 27936

<211> 275

<212> DNA

<213> Glycine max

<400> 27936

catcgtttga gaaaagaatg aagcttgcca aagccttcca gtctgatgag tgaatcaatc 60
atgtaccttg tggatgaagtc agacatcccc gaaggatgtt caaccttgca tgcattccacg 120
aaccccaatg gtggttacga acccccatgg ggactatggc tcagatgaga gtaccgtggc 180
ttgtcatgag ggataaatgc aggccttgcg gccgacggag aagagaaatg ctttgtttgc 240
gagactgagg gcgagctgca ttatatggat ctggg 275

<210> 27937

<211> 256

<212> DNA

<213> Glycine max

<400> 27937

aataaaccta gacacataag atctacatga acattttcta gaggagatca cacctcaatg 60
atatctagat aagatatagt ctaaataaga tatgacttga tagaatcaaa tggctctgcc 120
tctttaagtc cgagcccaat tatggattca agcccaatcc ttcattaatt cctgacaatg 180
gattaaaaac atcaaatttt ccgattgagc tcaccttaata agactgccta gtttaattcga 240
cacttaagac taatca 256

<210> 27938
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27938

tcgggcatg gtgcaaaaca agttctccac atacacaaat catgtacaac ccaccatccc 60
 ctgttgccca cctccaactg agctcacgta ctcccacgta gcccttatcc tcgttcctct 120
 caacgccgag tccccatcaa tcctcccaag cttccacaac atccaagtaa ttccacatcc 180
 aatcatcatg gactaacaaa atcaagcaca acagggcaaa ggcaaaaaaac tctgccccaa 240
 atacaactca nattcacagc ttttcacatg caaatacccc agtaacattt ccttcgttcc 300
 gattcgtaa ccgttggatc gactcgaana ttttacgga agtctctagt acataagtct 360
 acaatttgac cgttgg 376

<210> 27939
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27939

agcttgcaaa gtattaatga cataaaaaca tcttttgaaa aaaaaaagaa gcttgcaaaa 60
 gctcacaaaa atgaaaaaag aagcaaacat gtaccttgtg ttgatgtcag actccaacga 120
 aggatgttca accttgcagc atcaacgaac cccaacggtg gttacgaacc ccagcggcga 180
 cgatggtgag gaggagacga cggtgacatg tcgtaaataa cgatcacagg tcttgcggtg 240
 gagggagaag agaaaggctt tgtttgcgag actgagggcg tggggaaaaa aagggttttg 300
 ggttttaatt catgtacaac acatcaattt ttttaaagaa aatcgatgtt atcacctggt 360
 taacatcagt tntataaata accgatgtta acaat 395

<210> 27940
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 27940

cttctgaaga acctccagat ggacatcata cattctgctt acttcatncn agatatgcag 60
ctcaaagcca cattaactgc gcaatgtctt ggaactacaa acaccttaag ggcattgcta 120
aagacaggta agtcgcatta cttgtaccat tgtaagtcca atattcacta cttctctttt 180
gtctattcca tggttgacca aaaaaatatt gcaaaatttc aggttgatta catattaggt 240
gcaaaccat taagaatgtc ttacatggta ggctatggtc cttactttcc caagagagtt 300
caccacagag gatcttctt gccttcaata gaagctcatc cacaaaccat a 351

<210> 27941

<211> 393

<212> DNA

<213> Glycine max

<400> 27941

agcttgtggt tttctcgcgt gtcattagtc aactctgatt tttattgaat aaaacattat 60
tttgggcatt agatcaaagt atctgtcgtt cttaaattatt tttaaactaa acaaattata 120
caataagttt tttattttgt acagaacaag aagtggctaa aaatattatt atttttttac 180
taaaagaagt tgttaaagta atagaaatca agttattatc attcagatgt taaaaaaaaa 240
tcttcaaatt aaactcttgg gaacatttgg ttgagttgag ctgaattttt ttcttatttg 300
aaaattatga tttcagaaga atttgattat tgaaaattat gattcatgta taaatatatt 360
tgattagttc taacataatt attggaaatt aaa 393

<210> 27942

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27942

acactgtgct ccgcccaatt cgncaagcaa ttcattcattg gtctgaatgg ggaagcggtc 60
cttgatgggtg agtgagttca acgcacgata atctacatag aagcgccacg ttccgtcgtg 120
cttcttgacc aagaggaccg gagaagagaa cgggctgtta ctangttgta tcagcccttt 180
ctgaagcatg gtctcgactt gctgctcaat ttctgcttt tgaaaatgtg ggtatcgata 240
cggacggaca ttcaccggag tagcttgagg taaaagggtga atatgatggg ctgttggtgcg 300

ttccggtggt aaggtttgcg gttgtcggat aaggatatta tatctggtga gcaaagcttg 360
aatggatggg tccacgggtt cagatgaagt cgaatgttct ttcgagagga ctgtgatat 419

<210> 27943
<211> 342
<212> DNA
<213> Glycine max

<400> 27943

agcttattga catatgtgct tgttacgaac ttcagttatg atgctatgac tactcaatcc 60
cagatcgcta cgacgattca agatagatat cagaaggagg ttataaccatc cttactaca 120
ttgacttgcc tacataccct aggatcaccg atagtcttca tattagtcca ataaaactgc 180
tcacgagagc caaggatggg agataatata aatgaatggg tggacaaatg ttcatgagat 240
atcaatgcga atcttcacaa tattccatat catttacata gattgtagaa cgctaacgaa 300
cacattttat ctcaggatac tcttccactc ttctgcacta ta 342

<210> 27944
<211> 408
<212> DNA
<213> Glycine max

<400> 27944

tggaacgatg cttgcatgga cgacttgaag agggacttgt cgttatatgt tggagcacga 60
cactgcagga atcatagagg gagagaagtg gaactttgag gtgtgtctca cacgactctc 120
attcatcata gatacaccaa gcgttactca cgctgatatc tatagactag gcagcttcct 180
tgagaagcta tcttgagaat actgacttga gacagctctt ttgagaaaac tctcctgata 240
agctagagct tagctacaca cacccttttc ataactaagc tcaccttctt gagaagcttt 300
cgttataaga cccctaataga agctagagct tatctacaca tacctatgta atagctgagc 360
tcacctactt gagatgagaa gctagaactt agctacacac cccctata 408

<210> 27945
<211> 390
<212> DNA
<213> Glycine max

<400> 27945

agctttaacc tctttgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
 ccggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta accttgcgtt 180
 gtggacactg aaaccccggt cgatgaaagg cgtgatgctt tcgactgatg gcactcctct 240
 catgggacat ccttcgcatg aagatagaat cctgattctt ccttccttct agtgagggaa 300
 ccaattaaca gacgtccctc catgctagcc aagagttggg cccaattcgc cttcccttt 360
 tcgacgcacg agcggtgacc ttgtagcgga 390

<210> 27946
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 27946
 ctttcgtctt acagaatgca aaaagtttat acggataact atctgttgta tttccgcca 60
 tcagcgggac tcaaaagtca gtatgacaga tcttttgagc acggaagatg acgtaaatca 120
 ccgcgtgtaa acgggcttgt cggcccgcat tgacgaatgg cgcagaagac gacgttagtc 180
 tctgcgtgct agcaggcttt tcgacttaca gacagcaaaa agtttatatg aataaccact 240
 caggtatgtg cgctcgtgag cgtgactcat aagtctgtgt gacagatctt gtgagcgcgg 300
 aagatgacgt caatctccgc gtgccaacgg gcttgtcgat cgcgattgac gagtggcgca 360
 taagacgacg ttagtctctg cgagctatca agctcttcat cttacagaat gcaaatagtg 420
 gatacggata accactcg 438

<210> 27947
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27947

agctttctcg cttctaaatt cacttcttgg ttggtgtttt tggtttgtgc taaagggtgt 60
 gttcgacatt ggaagtgtgg tagacagact ttgtggtaga tttacggatg gccgctgtgg 120
 ataactgggt ggtgggtaag gagaaagttt gttattggct gagtaaagat attgttgggt 180

tgggtgggaaa tttggccgtt acatgaatgg cagtcacagc atggggtttct cctcctcct 240
 caccctcttt atttgcccca gctttctcag tcgccctaata acgatgatca aatntgcctc 300
 tttttggacc cacattgatc ctatcactgg cgaagaccaa atctgcacag ctatgaaggt 360
 gcgcacccca ccatcttttc atagtagagt accg 394

<210> 27948
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 27948

actcaatctt gccaccagc tcgccaggc gagctaggtt gcttccttca gaatgctttt 60
 ccttctgaag gaactgcttg gaaggcccaa gtgggcctgg ttgctatttg caccctctat 120
 ttactaaata caccctacc tttttttgct gattcttttt cgtaatgtt atgggaacttt 180
 acgaatttcg taacgatact tgttttcctt cgtaatgtt acggaacctt atggattatg 240
 taatcatcct tttttttggc tttcagaatg ttacagaacc tcacggattg tgtaacaatg 300
 cttccttttg atttccggca tgttatggaa cttcccgat cgtgcaacaa tgctctcttt 360
 tgacttctgg cacgctatgg aacttcgcat attgtgcaac aatgggtgcc aagtacctca 420
 aagaggt 427

<210> 27949
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 27949

agcatttatg atgttgaaaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60
 gaatgtatgc atacatgatt ttgatgatgc caaagaagaa ccaaacaagg ctgcttcaaa 120
 tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag ccttgtttca 180
 agattcacta aagaccaagc cttgccttaa acaaagtgc tttcaagaca tgcaaggctc 240
 tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga gaaatagctg 300
 ttgaaaaagg ttttgaattt gaattttcaa catgtaatcg attaccaaca acagaacttt 360
 gaatattcaa attcaaaagt cataaccc 388

<210> 27950
 <211> 295
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27950

 acataaaggc tcgaggagta tttcagggtc tacagaagag acacatcttt gtgaaattcc 60
 gatcatgcc aatgtgaccgg tgttcaacga atgccgcaca aacaacctca aagttataaa 120
 aagatagcta ttacaatgtc tcattctcta ggatgtttca aaggaagtgt aaaagcacc 180
 tattacggta cccaccacat aagagacact aagaggaact cgnactacct agcagaatgc 240
 tgacatgtct aggctacctc agagaaactt tgaaatggat gattgacgga ttttc 295

<210> 27951
 <211> 306
 <212> DNA
 <213> Glycine max

 <400> 27951

 agcttgtttg cgtggcatct atcggggctg gaagttaatg cttccatggt ttatctctca 60
 gaggacgtct cccctgtta attcttcgct tagaatggca aagacgatac tgcattgggt 120
 ctcccttttt gaagacgtca ttgaagagcg accttccccca ccacgttgat cctcggcgaa 180
 catgctctca taggggtgctt caatgaacgt aaatactcag gttagagata catagcctg 240
 tgcacatttt gtgggataac atcgggacag atggaaaatct ttgatttgtg tctatccata 300
 ctctca 306

<210> 27952
 <211> 197
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 27952

 tgacttagat tctttggcat gtggagctga tataaaggag gaggaactaa cagatgcatn 60
 agtcggatcc tttatcaggg gaacgacatg atgcaaccct ccctacgaag ggaccagtct 120
 ctatagccat gagcggaagg ctccacgagg attgtgctgg agatgctgaa taaggcccta 180

aggttctcat gaccctc

197

<210> 27953
<211> 388
<212> DNA
<213> Glycine max

<400> 27953

tcaagcttgt, ggttgcgcca caacaaagtt ctgaaactac ctgagggagc gacagaaact 60
tgagacttac aatccctctg gttatacaga attgtttggg attcatcatc agcatttcta 120
gtgaatttca gcatgaagaa gtctccattg ttagacatgc acaatggtaa aatcattgat 180
ttttcttcat aaggacaaat attaagatgt aaataactaa aatttattaa ttgaatccaa 240
gacttgatcat ctccaaactt cctcatctgc cacaagcaaa gatgagtgtt gctatcttgc 300
caaacacaca gcgagtctct aaaaactcca atatttgtat caaaatagca aaaatcgtcc 360
ggaagataca gtgatctgca agtctcct 388

<210> 27954
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27954

cttaacttaa cataattcac atcattntac caatcattgt gtaacatcac ttgtcctaag 60
gatttaatca caaaatcata ttctatacct tcacattaat cacatgttca taacaaaaca 120
tctcaagtac aacacaacat ctctcacaca caattcatta cccacaatca cgtagcaagt 180
cacaatgatc attacacaga cgttatgcaa catatatact aagactcaat cctatattga 240
atgtgggatc ttgtcagtga aaaataacac tagggcacct aagagtacat aataaaatac 300
accacacaat gggtaaagcag gtcactctta ttaaaagaaa tcataaagtg attaattang 360
gttatntctg ttagtgtgaa tgctctaacc atatgagatc aacat 405

<210> 27955
<211> 359
<212> DNA
<213> Glycine max

<400> 27955

tcaagctttt cgaaattgcc atgtttgggt gagttagaca taccattct gttttagggt 60
 ttttgtgatg atgtttgtga tgtttatatg ctgaaattgc tgatggaaat ctgttagaga 120
 tgaacggtag aactaaccga aggttagata gtgacaatgt gatgttatga gtggaaaaag 180
 agtgagactt tgagagttgg aaggctatgt ctgaattcta tggtagatgg acgttagagt 240
 gagttaatac tagcttgaaa tgtcatctac aacatgtgag aaatgttagg ctgagctata 300
 cagataaaca aatgaccaa gtgaacaaat atccattgct atggcaaatt tgtgtgttg 359

<210> 27956
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27956

ctacgctcag ctttaattta agcgncgaa gatttcgggt gnttttctga catccgaata 60
 aaaatttata gtcgcttgaa tgcgctcaca gcttctgttt tcaattacgt gcgtctcgat 120
 atattacggg actcaatcag acatctgaat gaaaagtat tgtcacgtga atgcgcttag 180
 agcttttggg tcccattgag agagtatcga tatagtatgg gtctcactcg gacatcgag 240
 taggaagcta atatcgatg aatttgcttc gagctttatg tttcaaaatc cagcgtctcg 300
 aaatactaag ggactcaatc agacatgcga ggcaaaattt attgtcaggt gaatttgctc 360
 aaagggttctt ctttcaattt ccagcttctc gatatatgtc gggttgaata tgctacaagc 420
 t 421

<210> 27957
 <211> 390
 <212> DNA
 <213> Glycine max
 <400> 27957

agctttcatc agaaagtatt ttgaattttt gaagattaaa gcaagaacta ggcaatatat 60
 atatatatat atatatatat atatatatgg ccaaaataaa acattaagca tggccaaaaa 120
 tcatatcttc caatgaaaca tcccccccc cccccctccc cacacttatt cctaaaacaa 180
 ttctaaagct ccaaaattcc ttaagggtag ggtgatatca tggtttttca cttaaggctt 240

gtagtgagct tcaaaacaag gaaagggaaa cataggctca aaagggctat caaaggaatt 300
aattcaaggt acgctcattt ggctagaggt tataagaata aaatgcctaa atcatttccc 360
aacatgcatg tgaaccaaga agtatcaaca 390

<210> 27958
<211> 415
<212> DNA
<213> Glycine max

<400> 27958

tccatcacat tcccttggtg ttggtaccca tttttgttcc aactcaagtg ctcgatgaaa 60
tgctcaatg gtacttttgc ctaagtttgt gaatatggcc ttttgattgg atttgggtat 120
gtatgattac catttttggg tgcgacagc ttgcgaaaat taggataaaa gccaaaacat 180
gacttatgcc tagggggggg ggggggcaaa cctttgtttg ttgaaaatac aaaaagggtat 240
gatgagtgag agcatgttgg tgaggtttcc cctttaggct agcacttggg ttgggctgca 300
ccatgttttc cttgtacctg gatcatgtga aaatgttgtt caccatgtac atgtgtatgc 360
tgaataggta gctaaatgct ttgcataatg tgcatatatg ttgaaaatgg catga 415

<210> 27959
<211> 362
<212> DNA
<213> Glycine max

<400> 27959

tagcttgaga tgaggaagtg ttgaagggtg aaacttcctg cttttattgt tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca agagacctg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccg acccaaccg ggcattatcg gtcagtgaga 180
acctgtgatg tacctaagca ggcgagctcc tggcagtcta cagataaaaag gaaaacaaga 240
ccacaaagca aggaggcttg tgggtggctgg ccagctgtga attttgtgta atatgtgaga 300
tatggcctct ggtacatcga taccaagggt gggtaatcga tcacaacgct tataaatgaa 360
ga 362

<210> 27960
<211> 396
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27960

tagccctaga ggggatggac cttntcaggt tttggttatg atcaataaca atgcctatag 60
gttggacctc ctagaagagt atggagtcag caccactttt aacatttctg atttaattcc 120
ttttgcaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatccttt 180
tcaaggggaa ggggtatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240
caagaggctc caagaggatt gggctagagt tgctgaagaa ggcctangg ttctcatgaa 300
cctcagggta gatttttgag tccatgggcc aagtttgggt ccaattctct ttgtacatat 360
tagactanga tgtcattata tntgatcctt gtattt 396

<210> 27961

<211> 383

<212> DNA

<213> Glycine max

<400> 27961

tcaagcttga aactctaata attaatgacc attaccataa ttcaatgcaa tatctatgaa 60
taagtagtgg ttggaagctc actgcactgt ttttcggtta atgggacata tgacatacct 120
taatgtatca acaaggaaga ggtggaccaa cacgtccac actgtagtca tccactctg 180
agaaggcagc cccagcaa at gtttcagtca agccatatcc ttgcccaata ggagccctat 240
caacaagtaa atatagagaa cttcaacact aaatggataa taaaagggtgt aaatcaaatt 300
tatcaactcc gggacagtga aactcttctt gtatttctgt gaatcaataa agtcctatc 360
aaattatcat cagtgttcta tca 383

<210> 27962

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 27962

tagaagacct aagttctgaa aggcttgaat gcaatcaaag gtttcagcag aaaagaattc 60
catatcaata aacttagggg cgataatgga acgagatgag aaaagattgg agtaccgttt 120

ctgctgttcg tcggaagaaa acactagggga agatgacaat gaaggtggaa ttggtgctgt 180
 ggatgcgcta gtggctccag aacgatgagc tcttgaagcc gaagcggagg cggaagaacc 240
 ctttcatttc tttgacgatt ctgccattnt agggagtttt tgcagattnt aatcgggtgga 300
 atcaaaagaa aaatgagcaa gaagaagatt tgcatntacg ggagttgatt tgatgaagaa 360
 atgagtg 367

<210> 27963
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 27963

agcttctgga ggttgccctct taatgaagct tctagagaaa gctacatgca gctgcctcgg 60
 taaaaacgct gccagcctt cattaaccat tggatcttct cgaaaatttg gccttaaact 120
 tcacaagaca cttttccatg atctgaccgt tgggatcttt gagaagatgt ctggagtgtg 180
 ctagaagtct ctttaataaag cttctggagg aagcctctta atgaagcttc tagagaaaac 240
 tacatgaagc tgcctcggta aaaatgctgc gcagccttcg ttaaccgttg gatcatctcg 300
 aaattttgtt ttcaacttta caagacaatt gtgcatgac tgaccgttgg gatctttgag 360
 acgatgtctg gagtgtgcta gaagc 385

<210> 27964
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 27964

tgtgtaccac cattttcata tagaacacta gtttatgttt actatcattg ctattatttc 60
 tttcttcac attaaaggaa acacttgggc tgtcagatcc ctccacctt gggcgcatc 120
 tttaaaacat ccgtgcccc tttctgcaca tggtctgtag ttgcaccta tccgaagaca 180
 ttatactgac actgcctaac gaaggcaacc attaggtgct tccaagaatg gactcgggaa 240
 ggttccaagt tagagtacta ggtaacagct accctagtaa gactttcttg gaaggaatgt 300
 atcagcaatt cctcatcttt tgcgtatgcc cccatcttcc gacaatacat ctttagatgg 360
 ttcttggtggc aagtagtccc cttgtacatg tcaaagtcca gcaccttgaa cttgggaggg 420

gtgatgatat tggg

434

<210> 27965
<211> 387
<212> DNA
<213> Glycine max

<400> 27965

agcttgtggtt attctatgat gtgattgcct tttttcttgt ttgagaagat gtgactgcct 60
tgtttccttt tgtaatgtag tctctacttc tagtgaccat ttgttatccc tatatatgtc 120
tgaatagtta gctaataaaa ttaaaacttc ctagatgggtg gatcccattc tttaatgttg 180
tcattttcct aacttgtgct caaaacatca caagtaaatt agatcgttat cctcgaagaa 240
tgaggataaa tgagtaatta tgtaaataa ataagaacga tgataattaa ttatgtaaat 300
ttgctattga tgatatactc cttaatgata atggataaga aggaattaag ctttgtatat 360
ataacaatgt aactctgatt gtgggtgc 387

<210> 27966
<211> 415
<212> DNA
<213> Glycine max

<400> 27966

ggtcctccga caaacaatat atgaggatgg ccatgttatt aactaacga aaaattaaaa 60
gccgtttaac aatgtatttt ttttttaaaa aaacaaaaaa ttaaagaca ttttcttcca 120
taccattcc tcatgaatga ataaaacatt caactttgag gaggaattcc aagaatatat 180
cccaacgcaa attaaaatag tgcttaagtt tatcccttga aataatgtga atatattttt 240
catcatgcaa tgaaaaaatt aaatgatgcc tacaattttt tttatccctt gcaacaaata 300
tgtggttaat aatataaaaa agattattat cttattttatt ttcaaaattt tgtccagcca 360
aaaaagggttg tgttaataga aacaaattac aaataaaata ataattatgt aatta 415

<210> 27967
<211> 386
<212> DNA
<213> Glycine max

<400> 27967

agcttggact catgagtggc aagttgaggt ctaagtggat ttggtccttt tgttggtact 60
aatgtttttc cttatgggtac agttcagatc aaaagtaact ccacaaacaa gagcttcaag 120
gtcaatggac accgacttaa gtcattcctc acaaaccctt ctttagtgga cgtagtggtg 180
gaagagactt ccttactcca ccctactctt cctccaccat gacttaggga gtttttcttt 240
tcctatctcc ttctttactt ttattacatt tgtccgattc tatttggttg ttttaattgct 300
tttaatcttt taattgtgct acattgagaa tagtgtgttg ttttaagtatt gaggggagtg 360
ttctttgggtt ttgggttttgc taggtt 386

<210> 27968
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27968

actcacgctt atctaattat tttaatcaag tgttacctta ctggatttat agtttagttt 60
tgnnatcaaa aaccattagt agttgcatgc aacacagcaa tgccactga ttcactttcc 120
tgttatcaca ttaagaaaca ttacattgcc aatacaagaa tgtcccttgc cttgatgctt 180
gctaatccct gacatctaaa cagaaatgga gaatgtagag ttctgctgctc attgattctg 240
tagataataa ataggaaggt ccaaaaagag agcacgttcc acaaaatcgg agttctctgg 300
ctctgattct gatccctact tttttataga cgaaatgaaa ttaaacttaa acataacata 360
atatgaataa ataatacatg catagacaat gtcaagaaat tctatactat catccaattt 420
tatactagaa agtttggtga cttttcagaa gct 453

<210> 27969
<211> 395
<212> DNA
<213> Glycine max
<400> 27969

cgctatagag taatcgatta cacctcaaca gatgcgactt ttcataattta aattgtgaaa 60
atcaaaacgt ttagaaactc tggaaatcga ttacaagtat tgtgtaattg attacacaag 120
atacaaatga tttgaaaata ttttatcact agttgtgact cttgaaatta caaatctaac 180
gttttaaaac attggtaatc gattacatga ttatggtaat tgattaccac tttgtaaatac 240

agttctgaaa ataatgctgg atatcggtaa ttgattacta ctttctggta atcgatgacc 300
 atagagtaaa actctatggg aaaagatddd gtgaaaaatg cttgtgctac tcaatgattt 360
 gaagaacctt tttagtactt atccttattg agtct 395

<210> 27970
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 27970

gtaactaact ctagataacc gatttaaaaa actgtattca ctgatatctt aatataatga 60
 atgccattta taattatddd aacgtaacag aggaatttaa cacgtaaggc tattaatact 120
 ctaatatddd tatgcacatt taccattagt tttctttggt ctttttattt ctaacatatc 180
 attattattg gagattgatt gaaacacaga atgaaacttc gaacttaatt atcgacattt 240
 cactgagaac aaatccgtda ctcatagtga gtgtgattcc aaaggctgaa attgaagtaa 300
 aaaaacaaag agagtaatgc acacgattgc gaatcatatc gacaaggtda atgataacag 360
 ttatctacga ggaacaaaca tatgctattc t 391

<210> 27971
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 27971

agcttgtgtg aagatataga cagaaaagga cttagaaatt gttttgcaat tgtctatctg 60
 ctaagcgag accctgcgct aagcgctcag tcttcacgag ctaagctgag tttgctctcg 120
 ctaagcgcat agacccatga ttggttggct gaatagttda gctaagcgca catcactgag 180
 ctaagcccaa catcttcag gtaattgaac cttaactagt gggcttagcg tggatgatgc 240
 actaaccgcc acttattctc tggaaaattt ttattgtagc agcgctaagc acaccatcct 300
 gcactaagcc ccagatccat tctgtaactt gagtttttaa gctgggctta gcgggcccagg 360
 aggtgctaag cgccaatct 379

<210> 27972
 <211> 437

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27972

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 tttctctttt tactcaagtt atgaattccc ttaaagacaa tcttcttaaa tattaattca 180
 aacgaagcaa cttgaatgtg aatataaagc aataataaat aaaagagatt aagggaagag 240
 aaaatgcaaa ctcaagtttta tactgggttcg gccacacctt tgtgcctacg tccagtcctc 300
 aagcaaccgc cttgagagtt ccactaactt gtaaattcct tttaacaagtt ctaaacacac 360
 aaggacaatc cttcctttgt gtttagagat cttttacaac aagagactca cagtctctta 420
 atcccttttag agaatga 437

<210> 27973
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 27973

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 tcttcttatg tcttgttcta tcgaggagga ccgagcgtct ggaagcccta tgtgtgaatg 120
 aatattttaga ctcatacaat gagagttggg aaatgggaga tcccatactt taatgtagac 180
 attttactaa cttgagctcg atacatcgca agattcttat atcgatattc tcggcgattg 240
 gggagaaatg aaatatattg tataaataat gagaacgatg ataatttata atgcacattt 300
 gctcatggag attgacctcg taacgattat ggaagataga gcagtctcgt gtgaattata 360
 acatagacct ga 372

<210> 27974
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27974

tatattatca tcaaccgcga attgtattcc aaccttatcn tattattcga gaggacttan 60

atcccttgaa ttaacataaa caaacaattt acattaagaa aaaagggttta ctaatgacta 120
atcctcttta ccctttccct aggcataaag aaaattagtt gtcttcttta gtttgcaatc 180
caaaggattt tctcaattac aattgaaatc atagaatcat gtaaataagg tgcacaggcc 240
aaaaacaagc attaataatg gaagaagaac aataacgatg ctttattaaa tagaaacaat 300
gtaggaatta cacgaaagtt gaatcaatta cattaaatcc caacaaaaga gaacagttag 360
ctactcatag ccatgagata gaagtttttg atgtangaac aatggaggat aaatccaaac 420
atatctaaag ttgtcaca 438

<210> 27975
<211> 391
<212> DNA
<213> Glycine max

<400> 27975
gtttctgctt gtgtaggact gcttaactgg ggaaaataat gagggtaaga gagagatagg 60
ggggagcgcg atattgatcg aataacacgg gagagaacga gccctatgcg tagtgtgtca 120
cgccagtctc gcccatcgaa gtgacctcac tcgcatcaca tgctttctatc tctctgctcg 180
gtatccagct tgaaaacatg tcttgccaac tgtatctttg aatgcttcta cgcgaaact 240
tcgttgacaa gctagaactt aattacacac accctctca taactaagct cacctccttg 300
agaagcttcc ttaagaagat tcctatagaa gctagagctt agctacacat acctctctaa 360
tagctaagct cacctccttg agatgagaag c 391

<210> 27976
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27976

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tctttgagcc agacttcgcg aacagtgtag ggggttctgt gggttcaagc gaggacaatg 120
taggttttcc ggcaatgtag ggggatttgt gggttcgagc gaggacaatg tgggtgtcga 180
gggagcgggtt tctggcagtt ttcaggcggg aggagaaaga gaagagtgat ttcacggtga 240

caaagagaag agggaggggca aggcttttcga ggcacgcag cttgtgagtt tgctgctgac 300
 atgcccgtcg cgggcgggcg cttcagctac ctccgcgtca cctttgggtcc gtgctttcca 360
 atgtcaccgt cgccagaagc ttgacggcgt gcctaggcac cacaatcgga atc 413

<210> 27977
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 27977

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 aaacttcatg atttacattc tccccctttt tgatgatgac aaccacctgt aggttaggag 120
 catcaacaca gaaaagatat ctattcgcat atagtatact cccctctgga ttgcaatga 180
 ttgcttatat gagacagttg aagatttcat atttatcata tgtaaacaaa tagtctcata 240
 aacaaaagat aatttttctt actattttat cctttatctt tctctcccc tttgtcaaca 300
 tcaaaaacaa atcatgaata gagaggagaa agatgttacc acttggtgca atgtattaga 360
 atcaagtgat accaaaaggc attaaaacaa tc 392

<210> 27978
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27978

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 cttatcataa cacaaaaatg acatgctaatt cctcctatt tagaatgaac tcatgcacac 120
 ttttaataata aaatatattat gcacatgcgt atgtgtagaa tatcccacta tttatgtcaa 180
 cgtacaagga catccaacac attctaattg ccatacatat atatgcattt gaaaagaaca 240
 cacattctca tgctcaaggc attgcgtcaa aattcacacc taatcacatc ctanacactt 300
 gctatcacga actacctaca catatttgaa acatatatca tacaactttt attgtttcac 360
 tcacatttat ttatatgcat gttggaaaac taattacgtc atgcatacaa gtgcattcaa 420
 a 421

<210> 27979
 <211> 263
 <212> DNA
 <213> Glycine max

 <400> 27979

 aaacgacaag aactttgtac tcggatgtat gattgaggcc cctaataatat caacacgctc 60
 tagatctaata ggtgaagctc tgaccagatt caaacgacta tcacttttta ctcggaatgac 120
 agagtgtattc cgtgaatata tggatacgtc ctaaataaaa tggagaagct cttagcaaat 180
 tcgaactaga attactttgt actccgatgt ctgattgaag cccataatat atctagacag 240
 ctgcaatgga atgttgaagc tct 263

<210> 27980
 <211> 417
 <212> DNA
 <213> Glycine max

 <400> 27980

 actgtcaatt tcagcgtctc gaatagttcg gttttattca gacatccgag taaaaagtta 60
 tcgtcgtttg aatttggtcg gagcttcaac attcaattta cagcgtctcg atatatgacg 120
 ggactcaatc agacatccga gtaaaaactt attctcgctt caatttgctc tgagagttca 180
 gaattgaatt tcgagcgtct agatatatta cgggactcaa tcaaacgtct gagtaaaaag 240
 ttattatcgt ttgaattagc tcggaacctc aaaattcaat tttgagcgtc tcgatatatt 300
 acgggactca atcacacatc tgagtgaaaa agttattgtc gtttgaattt gctgaaagct 360
 tcaactttca atttcaagcg tctcgatata ttacaggact cactcagaca tccgagt 417

<210> 27981
 <211> 245
 <212> DNA
 <213> Glycine max

 <400> 27981

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 ttacgtgtgt cttgatctc tatgagagga tgtccatccg gacgatgcat atcatgtgta 120
 gctgactact atggactata gtcacacgtc cacatgccac gtgtaatgct ctagtagcga 180
 ataatatcgc acatatcaat tatcatagga caatgtaacc atcatgatca accataggtg 240

gaacc

245

<210> 27982
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27982

ntgaatccaa gaaaaacccat gaatcctttg ttatccctgc cacgttacaa gcctgataaa 60
gtccttaatg atccacattg tgcattgatg attgcattga ttgagatgat gtgcaaagtt 120
aggaatttta caattcaatt gttgtaatta aaacacttat aactgaaaca cttgcgagat 180
taagagaaac actagccttg tgaggaataa agattggtga ctcatctgtg tgacttgtca 240
ttcttgctaa atgattcatc tcgaagtgcg tcattttcgt actcctttca tgaacttatg 300
acaactgtga acttgagaat angtcattga agcttttggg atgtatgtag ttatctcatg 360
tattgtgata ggtaaactct aaactttatc tcagtgtaat tagtactt 408

<210> 27983
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27983

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ccaagtcctc cgaagtcttg agatcgaact ctttctatta catgtgagaa tgtgttcatg 120
ctctactcct catttccact agacgcacac acttgagaat gactatgagg aatagggata 180
aaaaaggaaa ccagacaaaa taccacttag aaaacaattt tgtcgaatct ataagctact 240
tgaactagcc gtaaagggtg acacgcgtat ctttaagcaaa atcacataat ctaaaatata 300
ctatcatttt gttcaacaac ataattccag ctttaattccag ataaacatgc gttcaatgga 360
tcataat 367

<210> 27984
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27984

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tgaattaatc ttgaaacaat ttttattctt ttattgngcg angaagnaac cttaaacgca   60
accttgtag atcattcttc ggcacatcc aaatcatgta ttcatacatt cacacatggc  120
acttcacaaa tccacgtctt ggcttatect agcacgccac tctatgagaa gaatacgttg  180
gccccttaca taaacatcca gctcctgagc taacctccat tgagataagc atgcacgagc  240
tctaaataga atgcgagctc cttccac                                     267
```

<210> 27985
<211> 392
<212> DNA
<213> Glycine max

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<400>        27985
agcttctaag ttggtatact aggtgaccac cgccccggcc aagctttctt ggaaaaaatg   60
cattatgagc ttctcgtctc tggagtatgc ccccatcttc taacaataca tttttaggtg  120
gttcttgggg caactagtcc ctttgtactt atcaaaatcc ggtaccttga acttcagggg  180
gatgatgacg ttaggcacta aacacaactc tgccatgtca acgaatgggt aatcaccaat  240
cccttcgatg gcccttatcc tctccttgat gagatccaat ttctcccttc cttccacggt  300
cggaggggag ctccccactg agaagtgcag aggttgagc gggcagtggt gaggagcccc  360
cgtggtattg ggttggggca taccactaca tg                                     392
```

<210> 27986
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 27986

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tctccctctn ttcctataa tagggggagg agggattatc atttttgttc taccctctg   60
gtatctgagg atcacttgaa attagtgaag aanaaatcat ttccgtaaag aaaattcaag  120
ccgagggcgt tccataacgc gtccgaaacg tttccgtggg taattttgtg aagatattcc  180
gccgtctttc gttcgttctt cgtcgttctt cgatcttcaa ccgtaagtg cccgaaattg  240
aacttttcaa ttcattctat gtacccttgg tgggtcccccac ttgtttcgcg tacttttatt  300
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ttcattttaat ttacttttccg taccacctta tgacgagatc tagtcattca ttgaagacat 360
 tttct 365

<210> 27987
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 27987

agctttagat gaggaagtgt tgaaggggtga aacttcctgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg cgggggtcag gagaccttgg ggacgccagg tgggggtgcta 120
 ttgccccaaa ccaagcttgg tcaatcccg cccaacccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaaacag gcgagcttct ggtagtcaac agataaaagg aacaaagacc 240
 acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtgac atgtgggttg 300
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta aaaatgaaga 360
 caggaggcta agatggtctc tggtaatcga t 391

<210> 27988
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27988

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 catattctag acgtgaagag gcacaagctt gaagacaaga ctatacgagg tatcttcctt 120
 gggtagtagca atatctctaa gggctaccgt gtctacaact tgcaaaactaa gaaactcatc 180
 atcggctcgag atgttgaagt tgatgggtac gctnttttga attgggatga agaaaaagtg 240
 gagaagaacg ttcttatacc tgctcgacta tctcaagaag aagctgagga agaagatcca 300
 ggtgaaccac cttcacctct accataacaa caagatcaag aactagcatc accagagttt 360
 actccaagac gagtaagatc tttgggtggac atgtatgaaa cctgtaactn ggtcatactt 420
 gaacctggaa gc 432

<210> 27989

<211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27989

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agcttcttat cttatgctca tcttgnggc gaagctcctt cttccatggc ttattcccta 60
gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaaaggg ctacacgtcc tcgccttcag aggactacac gtcctcgcct 240
tcaaagggct acgcgccctc accttcaaag gactatgcgc catctctttg agagggctac 300
acgtcctcac cttcagaggg ctacacgtcc tcacctcat agggctacat gtcctcacct 360
tcatagggct acacgccctc accttc 386
```

<210> 27990
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27990

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tttcttataa gttgatgtct ttgtctgcct agtttcttta ttcttttatac aagctagaaa 60
tatctctcaa ttaaaatgaa ttcaagcata attcaaattg aaccaagcaa tcaattgata 120
actatgaaag gattaataaa tctcaccctt aatcccaaatt tcaatttctc aaatctcaac 180
ataatcatgc attaactcag aaaattaaaa aaacaaaaaa gggaaaaaag cacaaatcat 240
aaaaaatgaa aattaaagca tagaggaact canatttacc atagccttga gatcctagga 300
ttgaaaaact tagaactcca tgagaatctt tgttgagggg tttaattcaa aaattaagaa 360
gagagaggaa gngagaaga agagagagaa gagaacacan aaacttagaa ttgaaattnt 420
ataaaatgca agtgtaatgt aat 443
```

<210> 27991
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 27991

agcttttaaatt tttattcttc ttattgggta ttttacctgc aaaatacatt caaactattt 60
 taatttggtt cctacttctt tactgtccgt ttgatccgtt ccgctgatct ctgggtgtata 120
 tatatatata tatatatata tatatatata tatatatatg tacaacttat attttcttgt 180
 gtaacggtag tttgccttac acttttatgg aaatctttca acgtcatatt ttattattta 240
 taatctaaga aattaaatta gtgaatcata attttaatcg agccgtccaa tttagaggtc 300
 gaagataagg atgctttcaa ggtgtcttaa cctaccattg agtcacttag gattgtattg 360
 agggcaactc agaccttcct ttgagggact ggat 394

<210> 27992
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27992

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 tcatttcctt ttgaatcttg ttcataata ttcatatgtt cttaaagaatc tgcaatatca 120
 tctagcatat tctttcttga caagatagca ttagattcat cacaggtaac atgaatggat 180
 tcctcgatat tcatagttct tttattatat accctatatg ctttgctttg taatgaatat 240
 ccaagaaaaa tgccttcata agattttgca tcaaattttc ctagattatc tttaccatta 300
 ttgagcacia agcatttgca accaaaaaca tgtagatgag aaatattagg ttttctacca 360
 ttatataact catatggngt tttctttana atgggtctta ttaaggccct attcatgatg 420
 taacatgcag tattga 436

<210> 27993
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 27993

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 ttttcgtgtc ctctagtatg aggttcttca tagtcatcca cctattcata tgctcccccg 120
 aacacaaagt tcaagatcat cacaggatcc aaacacaaac aacacacagg gagtgagtta 180
 tcacattcct aactaatgga gagaaacaag ataacatgta ggtataaata tcatataaac 240

aaaatacaac ttacttaagc atcactcaca ttatttcacc actttttcgc acaacattac 300
 atcacaacac cacacatttc gtttattttc acaacattct cgtactcaag gatcgaaaca 360
 caatatcatc aagtcaatca atatcgatca atacacaag 399

<210> 27994
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 27994

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 atcttcatga ttacatttta ttgtagatgc aattggcttt gatgttttga tgatgatcat 120
 gataatgtgt tgcaattgat gcaaatgggc ttttcaagat taaaattcaa gacaatactt 180
 caagattaca aggcacaaca tcaagatgat cactagaata ttaggaaggg aattcctaata 240
 tgaattagca aaggtttggc caagtgattt aaaataaaaa gtgtttttca aaggttttac 300
 tctctggtaa tcgattacca gaggatgtaa tcgattacca gtggccaaat acattntata 360
 acagctataa aaatttgaat tcgaaattnt aaaagctgta atcgattaca caatattggt 420
 aatcgattac cagcagttag taaacg 446

<210> 27995
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 27995

tctagctttg tatggtagaa ggggtagaac acccgatatgt tgggtagagc cgggagaagg 60
 cctcacctta tgaccagaaa tggtagagca aaccactgag aaagttaagt taattcataa 120
 aaggataaga actgctcata gtaggcagaa aagttatcat gataagagga ggaaagatct 180
 ggaattcgag gttggtgatc atgtattctt gagagtcact acatggactg gggttggtcg 240
 agcattgaga tcccgaaaac tcacacctca ctttaaagt cctttacaag tcttaagagg 300
 actgtgcttg tggcatacca aagttgacta ccccatctc tttctaataat tcacaatgtc 360
 gttgatgtgt ctgaacttcg ta 382

<210> 27996
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27996

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 cgagtacatt ggatttggtg cgaccatgcc ctcccttgatt ccagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg attntaaaag 180
 ctctatagtt gggcctaggt tttagagttt ttccctttgt taaggctttg tgtcttttgt 240
 ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300
 ttcatttgca tgtntacctc tttatttctg aaacggcaga tccgatgacg agtccctcga 360
 aggtactaat acctgggacc cgcttatcaa ctccgagcaa gaaacgaatc 410

<210> 27997
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 27997

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 tgggtacctg agatatgtcg cgggggtcag gagaccttg ggagccagg tggggtgcta 120
 ttgccccaaa ccaagcttgg tcaatcccg cccaacccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaaacag gcgagcttct ggcagtcaac agataaaagg aacaaagacc 240
 acaatgcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtgac atgtggtttg 300
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta aaaatgaaga 360
 caggatgcta agatgtctc tggtaatcga tta 393

<210> 27998
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 27998

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agaccnacga ccggtattat atcatttgca acaagagatg caccacgagg aaagtctgaa 120
ggagaactca cgagacgatg ctgaggactg gacatatcgc tagaaagata cataaggcca 180
ctcagataag cgaagggcga acaaagagac tcatcctctt tggatacgcc gataaatatt 240
gcgtatgcac aaatgaagtc cagctgagat tctgccctga aaagcagcag aactacgggt 300
aatccctatc ttgcacatgc tgtatgctaa tattcgagag aatctcctat ttgccatcac 360
aaacaggctg atcaatggct atcaatatcc cagctgactc tgctacgagt aaaacatgtc 420
cagggtccagt gacagccccc ctctaagtga tgctggagac tcgaatagca tacatatcgt 480
can 483

<210> 27999
<211> 386
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 27999

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aacattgtat ccttggaag cagaaaaagg tcagtttctc aagggtaggg aagactctga 120
aagctgaaaa gctagaattg gtgcacacag atgtttgggg gccagcccca gtgaaatctg 180
ttggaaactc acgtattat gtcaccttta tcgacgactc taccagaaag gtatgggttt 240
attttcttaa aaataaatct gatgtgttct ctgtgtttaa aagggtgaaa acagaagttg 300
aaaatcagac aggtctaaag gttaaaagtc tgaaatctga caatgggtggg gagtatgata 360
gtcatgagtt taaagacttc tgttca 386

<210> 28000
<211> 302
<212> DNA
<213> Glycine max
<400> 28000

ggtgtcagcg tctatgcgag acagagacca ttatgtttgc tatcatcgcc aagtaccacg 60
aggagacagc gtctagccac agcccacgag catagaatcg ccgaagaata tgcccaagta 120
tacgcggaaa aagacgctag aggaagggcg atcgactctt tacaccaaga ggcaaccatg 180

tggatggatc ggttcgctct taccttgaac gggagtcaag aacttccccg attgttagcc 240
aaggccacag caatggctga cacctacttc gccccgcgat agatacatgg gcttctcggc 300
ta 302

<210> 28001
<211> 359
<212> DNA
<213> Glycine max

<400> 28001
agcttgtcca ctgttaattc gagttaccac tcaggctcca aagtttgacc tatctgagaa 60
gtttgattct gtggcatgtc ccgctcatga atgaaaggct tgacactttg atagtccgat 120
gtatgatgct tcagacaatt gatttgcttc actgcgctga actttcccggt gtggagatct 180
atgcggccga gcatagatat ttcaagatag cgagaatagc tgggtgtaat aatatggcaa 240
tggttgaagt tgttggccca actcttgggt gtgagcacta tcgttggcac ggaccaagca 300
cattaacatt ccacgcacct cgatggagtg atgccttgggt caatgatgtg cctgctggg 359

<210> 28002
<211> 362
<212> DNA
<213> Glycine max

<400> 28002
tatgcaaatt atatcaaatt ctaggcaggt tctgatttag gttttgaaaa atcaaagaaa 60
tgtttgaatt gtaatttttg ttctcttaat tttttaaatt gataattttt gatttttgta 120
atttctaatt ataatatattg ctgttcttag ttgtataaat ttacgacttt gattctcttg 180
atagattgtg aactaataat tatatttaca aagaaaaata atactaatga ttattaaaga 240
tcttacatta agtagaaaatt caatataaat tattactgat cagaaattct aataccagat 300
tattaactca agcatgttat tagagtaagt gaagtcgcgg gtgcacgacc gaatatagaa 360
aa 362

<210> 28003
<211> 389
<212> DNA
<213> Glycine max

<400> 28003

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atgctagcaa tttcataaag gtcaaaatgc ttgtggttga ccataacttc ttattgcagg 180
gcactatggt cccgatgtta ttgtggctgc attaattgga attgtaactg gttgggtgcac 240
aggccctcta atgcccatat gtgggcattg gttagccagg tcatccatct tgcaatttct 300
gctacatctt agtgtgtttg ctttggcatt atcatctcag ttctttcctt acactatgtc 360
tgcgcctaag aggattgttt ttcagcata 389

<210> 28004

<211> 419

<212> DNA

<213> Glycine max

<400> 28004

tgaagcaaag tgtaattgca tcataatgag agagttttat tttagattgc cettacaatt 60
tgtgccagca tttcttctct tcccgttggc ctatatatac acccgagcag agcttagcca 120
aatgcttgcg catggcttta ggtttatggc tgtttgggat agtagccaat tgttatttgt 180
cggctccaat atatatcgta agatatgcaa ctttgtgttt aacataattg taaagttatt 240
tttttccctt ccttttttgt gggtaggcca ttttaatttga ggcaattgga ggattgtgct 300
cctcaagttg ctccattctt gttatctgat ttccattgag atgaagtgat tcatcaatgg 360
aagtgtgaag tagaactcat tcatattcgt taatattgtg aaaagcatat tgatttctt 419

<210> 28005

<211> 372

<212> DNA

<213> Glycine max

<400> 28005

agctttttaga gttatgtctc gtatcgattt aatcaattat agtagtattt taattcatta 60
ctctgttggt tgagacaatg actaatttag ttaggagtct ctactttaat caattaccaa 120
gtggattaat cgcttacttc tctctcgttc aagtgtttag aggtgaacaa taacacttta 180
atcaattact taggtcatct aatcgattac attgttcttg agttgttttt cagatattgg 240

atgaacactt taatogatta ctttgataaa ataatcgatt acottataga tttaatcgat 300
 tacagatggt tataacttgt ttctttataa ataaccatct tgtgttcaca tctaaaatat 360
 catgagatca tt 372

<210> 28006
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28006

nntgggctga ggacctatat aacagttcca atgtttttgt ttanggagtt ttttttcgga 60
 gaggagaata attctaggat tttagaattt cagtttttat tactgttcat gcacactggt 120
 cacgtagaat aaaattcatt ttttgcaaat catctctaatt ccatacattt tttaatatta 180
 tgctcttttt attttctttt gatatacttt gtgctttaac gacttgaatt caatatgatt 240
 ttgtttatca attatttttg gatttgtaca ttacttatac gaaattttat aagtttcttt 300
 ttttagttag tatttcaacta ggttttataa taattaatta atcaaagacg tctntaaata 360
 gacttttata taggctcgt 379

<210> 28007
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 28007

agctttactc ttctaaatgt atcaggtctt taacaagtac aatctacgog aattcttcat 60
 acatttggtg atagagttct ttaaccaata gtttgtcaat cttttcaaca aacatctaatt 120
 tgacatgtga gttttcaaatt cactaagaga atgttcagga atccggttgca aaattatggt 180
 aggggtaaag gtaattttac gagcggatta aaactcttac ttttgcatgt gttttatttt 240
 tattgggttg atttgcattg aatgcacacc acaacattta caacgcaaac caaacatata 300
 ctagggcccg tttggtggcc aaaatataat aggataagat aactatcata tctgtctatg 360
 aaagcaacaa gataagata 379

<210> 28008

<211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28008

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 tgattagact cagccgaaaa ctatcttgtc catggtctaa gcatggtgtc ttcagatttt 180
 gtaggaaagt attcatgtcc atggtaaata aagaattttc catattcctt ttggacactg 240
 tctataggag gtttctcatg atattctaaa cctaagcaat gctccttgaa ccattgcatt 300
 ctctcaaaa tgtaccaatc cttattagaa tgactggtat tcctcttgat ggcttcaatc 360
 ttatgcttga aggggtgact angacatact ntaatgaatc tagttgangg tgcacttca 420
 tcttc 425

<210> 28009
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 28009

agcttttagt gtttaagtgt gtaagggatg gacttcctac ttttattcgt tgaccacaga 60
 gtggatctg gagatatgtc gcgggggtca agagaccttg gggacgtcag gtgggggtgct 120
 attgcccaaa accaagcttg gccaatcccg acccaacccg gacatagtcg gtcagtgaga 180
 acctgtgatg tacctaaaca ggagagctcc tgacagtcaa ccgataaaag aacaaacacc 240
 acaaagcaag gaggcttggtg tgggtggctgg ccagctatgg atcttgagta atatttgaa 300
 tatggctctc ggtaatcgat taccaagggt gggtaatcga ttacaaggct taaaaatgaa 360
 gacaggaagt taagatggcc tctggtaatc ga 392

<210> 28010
 <211> 352
 <212> DNA
 <213> Glycine max
 <400> 28010

aactgttaag cactcagaaa gggacgaatc gtctgtgctg tatgtccttg ctaaaccatg 60

tttggtaaac tcttcccaat tagttggaca actatgacac tgttctttat gaaaaactta 120
 ttcttacatg atttgctata ttatttatcc tttctccacg ttctgctaata atttccttag 180
 atttattggt tggatattgg cataatgtca tgcataaaaag tatatacttt gatcgacatc 240
 tatgattgag ctgctgggtg atatgagtcg cgtcgcattt tagcatatta ttatgtggcc 300
 ttttacttaa attaaacaga tgatgcgttg tatacgtctt agatccgcat at 352

<210> 28011
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 28011

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 aagtccatgc aaaaatatct gagttcattt ggtttttggg aaagtccttc attgtttttc 120
 attctcaaata gttttcaaaa gaaatccttt tgttgcttc tgatccaaaa ataagtttca 180
 aaaatactag ttgttgattt tttccaaagg atgttacatt caagaaaaaa aaaatttaag 240
 tcccagaaag agttataatc tataactata ctaatagaat ataaaagcac gcacaaatta 300
 gtcaaaataa actcgtgtaa gctttttcaa aaattcaaaa caagttcaaa tcatgggtga 360
 agagctcaat ctccttgacg atcatgggtg 390

<210> 28012
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 28012

cttcaactgc acaaggctag caatatattgt ttagtattct tgtggagcct tcaactgacg 60
 agacactctg acatatactc ataccatcct tcatggacac agtatggcaa gctgagcgct 120
 agtggagctt attcccatca gaccttgact gcacatgaga tgctatgcac atatcggcta 180
 catcttgacg accatcaatc cttcctgatg ctagecctga aagctaagga gcgtcctgct 240
 cacgctatta caaacatttt cctcctcatg cactaacatc gacacactgt ttgacgttct 300
 gatcagacga gcataggaag atcaatgcaa ttggacctca cataccatat gcac 355

<210> 28013
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 28013

cgcttatgaa gatacaataa tactttttgc ccaagcatga agcccttctt aattatcatg 60
 ctatcatgga acttcttggg ctttacttag aagaacttgg cattctcata cgcttctatg 120
 cggatctcat ctaactcact caagtgtac tatctctcct caacagcttg atccatcgag 180
 aagatgcagg tcttctactgc ccagtatgct ttgagctcaa tctacactgg aagatgacat 240
 gcctttccat agacaacgcg ataaggagac attcctatgg gcgctttgta tgcaatccta 300
 tatgccc aaa gagcatcagc catcctagtgc cgtcaatctt tactgcttgg ctgcacaatc 360
 atctctaggc ttctcttgat ctccct 386

<210> 28014
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 28014

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 agaatcactt aaaattacgg aaaacaatcg gtttcatgaa gaaaatccaa gccgaagcgc 120
 ttccgtaacg attctgtcgc gttcccgtag gtgaattcgc taacgatttc gaccgttctt 180
 ctacgatctt cattcgatct tcatcgttct tcaggattca tccggtaagt ttcttaaattc 240
 agacttttca atgcattcta tgtaccctta gtgcgcctca tttgcttcta cgcgctttca 300
 tttacattcg atatactctc tgcaccctct taagacgcgc ttaacccttg atgggagtc 360
 tttctcgctt a 371

<210> 28015
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 28015

agctttaga gttgtctcaa gatactacta tgcaacttgg aagaataaga aaatgggtgg 60
 ctcttctctc ttgaagatct catgcaagat ggagaggatg aaggccaag tttgtgattt 120

tttagaggaa attatgagaa ataaggcaaa gctagcgatg tgctcgattg tcaagcatga 180
atgaccattg tttatgccat gggggacatg caagaggctg ccacaaatgg gtgggtcttg 240
ttctgaattt tagccagaaa tggataaagt agacataagc aaaaaaggta aaaattaatt 300
ttgccaaaac tgataaatct tatcttacat gtctagatta atgcattaac ctcctagatt 360
attgtgttaa tttgcctaag gatacatgta ct 392

<210> 28016
<211> 419
<212> DNA
<213> Glycine max

<400> 28016

agaggcgaga cggtgactcc acgtcagact cgttatcact aatggcgagg ctatcttcac 60
gtgagcttct cgccagtggg agcaacgaga cagcttccac gtcagctgtc tcgccattga 120
caatggcggc accctccacg tcaccaagtt tctcgccatt gacaatggcg gctagcgttt 180
ctcgccacta ctgctggcga catccatggt aaaacagacc ctgcttgtaa atactttgaa 240
aaaagactct ctttagtaat tagtttataa atggaccctt ctgtggtaaa ttgggtccaaa 300
taatatcaat tcactagcaa ctgggttcatt tgactatatt aacatatctc gacctttaga 360
taaagtaaaa tagcaaataa ctaagtatct tgtcataact tagttgaata caaacatc 419

<210> 28017
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28017

ctgcagcttt tagncattct tgtagnagcn ccaacgacat ggattctaaa tctttggttt 60
cctcgactgc cataacaatg tgctcaaatt taggatctaa cgagcatagt atcttcccca 120
tgattcttac atgctctaaa ttctcaccat gtcttttatac ttgaggtgaa acaacgataa 180
ttcttgaaag gaactgggaa atggacgtca actctttcat atgtaatgat atagactctg 240
ctatgagcac atgcacagaa acgctcttta gttgacattg gttatcccag cctaccattt 300
tacggtggcg cgaacaggcc aatatgatga cgtcgaagcg ttagtctcca agggagaaaa 360

ctagcagagt caccaccaac gtgtatttga cgaaaac

397

<210> 28018
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28018

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aactcttcaa aatagttctg actttttcaa atggttttta agtttttcta acagatataa 120
ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag gctttgtttt 180
gcattctgaa tcaatcattt caaatatttc taacaaactc ttacaatcct ttacaagcct 240
tgaaatctct ttgaagttct tcttcttctt ctttgtacca aaagctttat gaagttttct 300
ggttttccaa accttgaaaa cttgtgctat tcatctgttc attctcttct ccctttgcc 360
aaaagaattc gccaatgact aaccgcctga attct 395

<210> 28019
<211> 361
<212> DNA
<213> Glycine max

<400> 28019

ttaagctttg agccaaaatc ctgactcacc ataaaccttg acccaggggtg agaatgtcaa 60
tccttaccct cggaagcaaa aaaagaatag aggggaaatt tccaatcaaa gaaaaagaga 120
aggaaaattt ccaatgaaag caaaaaaaga aaagaaggaa aattccccaa tcaaagagt 180
ggagaaagca aaaagaaaag aaaggaaaat tccaatcaa agaatgggag aaagtaaaaa 240
aaggaagaag aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagaaat 300
gtgcagagag gtctttggac cggacaatat ctgaacaata cagaattgcc accaaatgaa 360
c 361

<210> 28020
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 28020

cgggtgatgt tgcgcgtact gatgggtacc tttatgtttt tgctgggggtt tgaccacacgc 60

ggttgttgaa gagacggcat gggcatctcc ttctttcctt tttgcccctg tcgccccgat 120

tcttttggca ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccaac 180

ctcgattctt tccccggcaa acgccagatc cgcaaagctg gacggcatgt aaccactag 240

cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300

catgggagga gctacttgtg ccgccaaatc cctccatcgc tgcgcatatt ctttanaggt 360

ttcacctctt ttcttgaaca tattctgcag ttgagtacgg tcaggagcca tatcagaatt 420

gtcctgatac t 431

<210> 28021

<211> 359

<212> DNA

<213> Glycine max

<400> 28021

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tatgggtccc tttctttgtt ttgaagctca ttacaagcct tacgtgaaaa accatgatat 120

caccttacc ttaaggaatt ttggagcgtt ggaattgggt tgggaataag ctgggaataa 180

acgtgggggg gtatgtttca ttggaagata taattttttg ccatgctcga tgtatatact 240

atatataaat atatatctat atatattgcc tagatcttgc tataatcctc aaatttgtac 300

tgttacacac aaataagaga tgatgaaata taaattcaat tgctgcaaat gctataaat 359

<210> 28022

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28022

gttcatatac atgtcttcaa agcttatggc attttttgtc ttcttcaaca aatgttcttt 60

gtctttaaat atatagattt cttcacttga gcttgtgtct aatgattgtg atcgttggaa 120

catttaatat ttccattgat acacatactc cttcatgctc aaaaaaatca cttttgtgtt 180

gatcacttta gcagaaaact aattgctcta agtcaaagta ggtttgtcat tagccgtgca 240

canttttgtg atggtaattt tcaactctca gatctttaaatt tttattttatt cttcatagga 300
 ttcaacatat cttaggaaaa tatcatacga atctcacaca tagagtaata aagaanatct 360
 tcaatgtcat cctttaatgc tatatcaaatt catgaccttc tctaaccatc gtc 413

<210> 28023
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 28023

ttagcttgtc atgggtcttct tttcaaacgg aaatttgaaa caaatgactg agttcaccaa 60
 tctggattgt tatgccatga agatgtttca tagactgaag gaatgctgct ttattttata 120
 acctgatgag aagccacttg catatgcggt tcaccatgaa gttggacaat actatcagac 180
 cctgaaccat acttgtttca cccaagaaac atcattcaac atgggtatgta catggacata 240
 ggagctctat gttgtgtctg attgcacctc tccttcgtag agttcctgcc ctatttcaaa 300
 ttctttcttca cacaccatgt ggatcttattc attgaagatg ctgcacatga tgttatatat 360
 atactttatt att 373

<210> 28024
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28024

aggcacctgc tgagncattt taattttttac ggctngacng gctcaaagac aatgatcata 60
 ctaccagtga cacgatggat aatcgcataa aagggcttcc cagaggtctt gcaatggata 120
 aagacagggg taagaagcaa aacctctgca aatcctatag ccttctgcaa tgcagaagca 180
 cttgggtgcag tgaatagagt ttttatgtca gtgccaatac caagggcagg gtggtcacca 240
 aactggggga cagcatggct caccatgggc agcatttcgg gtgcgttctc actgtatgca 300
 atgaccttgc atgtttttctc atctaaggcc aacaagcacc caagaagctg aatcatcttg 360
 cctttctgca tgtg 374

<210> 28025

<211> 386
 <212> DNA
 <213> Glycine max

<400> 28025

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agccttcttt gccacccaca tcccgcatcc atccggtttt tcaactgttcg atcctccgac 60
catatcgccc accattgtca tccacagaaa ccccatctt gctccctagt tcagccgaag 120
acaatcaacc aattattacc cccctcacca tactgaccac aaaatggcta ggctctggaa 180
gtcttcgaca attactgggtg ttagtccaat ggtctggcct cctcccagaa gacacttcgt 240
gggagccatg gttgaccctc aaggaaactt acatccttga ggacaagggt gttttcgatg 300
cacacgggaa tgttatagcc aaagacatag aacaccaaca tccagaacaa gaatcaagca 360
agaagcacca agaggcagaa acagag 386
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<210> 28026
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 28026

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aggaatccga ggacctcttt agatttggtt atgaagaccg caaatagggt gttggagtta 60
ataaattcac cactgatttc tttggaatac agcttttctt gaacaaaatg gcaatcaatc 120
tctacatgct tagttctcat gacatacaag attagacgag atgtgaagag ctgctgact 180
atcagaatac aacttcatct gtggaacatc aaaaaattgt aattcttgaa gttgtttaat 240
ccacacgaat acacaagtaa caagagccat agctctatat tctgcttatg cacttgatcc 300
agcaacaaca ctctgttgct tgctttttcca atagacaata ttcccaaaga ggatacac 358
```

<210> 28027
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 28027

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tcaagctttc caccagtgat caagtcgaag aacctaaagt cactgagaat ggagtaccat 60
tctcagttga tgctcatggt aacaactcca acatggcttc agaggaaagt ggcgctgttt 120
caaacaaaa acattttgtg gttcttgagg ccaaaagggt ttcttttatt gcagggttaa 180
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ctgttggtga ttccagggcat aaggaagagg acagttacaa gaataaaatt gaaaacatta 240
 tgtagcatt tcgaaaaatt tactatggga tatgattatg taaatcattc tcaaactgat 300
 tgaatgctta acatttatac ttattggaat tgaagtccct atgaagacat tatgctagca 360
 ttttcaaata cttacattac ttcacca 387

<210> 28028
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28028

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 taagagtaac gtccactgg taaaactaac tttccaaatg tttgccttog caggaatggc 120
 cccaaggaag cttgcctcaa agagggtccag gaaggacaag gcggccgaag gaactagtgc 180
 cgccccggag tacgacagtc accgctttag gagcgttgta caccagcaac gtttcgaagc 240
 catcaaggga tggtcgtttc tccgggagcg acgcgtccag ctcatggacg acgagtatac 300
 tgatttccag gaggaaatag ggcgcggcg gtgggcacca ctgggttactc ccatggccaa 360
 gggtgatcca gaaatagtcc ttgagtttta tgccaatgct 400

<210> 28029
 <211> 359
 <212> DNA
 <213> Glycine max
 <400> 28029

agccttctcg cttatcttct tatgcaagtc actctcgtgg tggcgaagcc tctccttcca 60
 tgactcagta tctagtggat gacgtcgcct ctaacctctc ctccctttatc tttcgctgca 120
 attccatggc taaaaatcac cattgaagga ccttattgaa gctcaaagat ctagcctgca 180
 tagaagcttc ataagcaagc ttccaacaag tggatcaga gcacacgagc ttcaagtagg 240
 tgctccttaa acctccacta attttcagct ctactttctc ctccattggt gttacttcga 300
 ttctctccat gtatctactc acgtgtctag tgctgaatgt ccgtaacata attttttat 359

<210> 28030
 <211> 403

<212> DNA
<213> Glycine max

<400> 28030

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cggaccacta ttgcacttgt ataacaattg tatgacctat tctatgggtt gagtaataca 120
ctatttgact tttatcgcaa atgtcatctt attctatgca aaagacatag ctcggtttccc 180
tttccaacag aatgcctcca tactctactt attgcacact gtgtacacag gcagagagaa 240
tctccatta cttactgtgc actatgtacc cttgatttga tcacctttct tcttctttgt 300
gtatataaac tcttctatct gtactaacat tgttgctctg catgatcttg ctctgacctt 360
tcactcctat tctcaaaata aaatgaaatt cctacttccc tta 403

<210> 28031
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28031

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accaacaggc atccaggtac tgctatacac agcacacaaa cagcactcac caaagggtgga 120
caataggaac gagcaacagg gggcataaca aaaagaggaa cgagataggg aaaatgggtc 180
acaacaaaac gatcctacga aaaagagcgc tcgacatcca gaaaccgctc acgcaaggat 240
acatcacaca gaaggacacg aacgcacgta cgagacgaca gactaacgcc cctcaacaag 300
acgagcacac taagggaagc gcacaactcc atacaacgac acgaaagaca gcatcacaag 360
accacacc 368

<210> 28032
<211> 473
<212> DNA
<213> Glycine max

<400> 28032

cgcgcttttg gttgtgtaga tgcattggcta tacggcgaca cttagaatac gcagctttga 60
gaactgagaa tatacagata ttgttggtga attttggtgaa gaactaaata cctttcaatt 120

ccttatcttg agacccaaca cgaacctctc atcggtctct tcagacactt ggacctacct 180
tcttacaacg caatgtctct cttggacgcc aagagcacac acgccgatgg aagtggcgac 240
gccctgaaaa actgogaaca aacgtttgct gacacgaatt gtagtacgga gcttatactg 300
tgctgccata ccagagcgta tgcacatcct cttgacagac gaccttgata atgcctccca 360
ccactggtcc tcgcactgtg aacttcgtga actaaactga tctcgtctga cataccactt 420
cctactgctt ggTTTTTctg ctgtacgcac aacctagctt aatctttatc ctg 473

<210> 28033
<211> 392
<212> DNA
<213> Glycine max

<400> 28033

agcttcctct ttaagcttct tatccaagtc actctcttgg tggatgaagct tctccttcca 60
tgacttattc tctagtggat gacgtctcct ctaacctctt ctcttttate tttcgtgca 120
attccatggc taaaaatcac cattgaagga tcttattgaa gctcaaagat ctagectcca 180
tagaagcttc ataagcaagc ttccaacaag tggatcaga gcacaagagc ttcaagtagg 240
tgctccttaa acctccacta attttcagct ttactttctc ctccattggt gtttcttcgt 300
ttctctccat gtatctctc acgtgtcttg tgctgaatgt tgttaacata atttttttaga 360
agttccaccg attaagcttg ctatagaagc ta 392

<210> 28034
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28034

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gagtaataca ctattttact tttatagtaa atgtaatctt attctatgca aaagacatag 180
ttcgtttccc tttccaacag aatgccacca tactttactt attgcacact gtgtacagag 240
gcagagagaa tctcccat ta cttactgtgc actatgtaag tttgatttga tcacctttct 300
ttttcttttt gtttataagc tcttctatct ttactaacat tgtttttctc catgttcttc 360

ctctgacctt caactcctat tctcaaaata naatgaaaat gcgtaattcc cttagctgt 420
 tggcactccc ctaatccctt ctc 443

<210> 28035
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 28035

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 ctagaactat ataaatgtca ttctgagtgg tggtgaaatt cactactatg ctggttttac 180
 tatgttacta ggcctagacc catgtgatgc acggatgatt tttttattta ttatcatttt 240
 tattggatgt cttaaattatt atatatcaaa aaggcaagta cgataggaaa ggaagtagtt 300
 gtgttttaaaa atactaatac tttagtcagt aaaatctgac taaatatttt tagaattcca 360
 agagatgtga aataaaaagtc attcttattt tt 392

<210> 28036
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28036

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 atttcttatt gccttccctt tattcatttc atatatttat agtgagtgt tatgaaaatg 120
 ataattgatta atcctaaagg tcttgccagc acacagggga caagccataa cagattggat 180
 catgggggac aagcactagc agggataggg actaatgata ctcagggaaa tcaagcacta 240
 cacgataaat tcttatattg tcttttgatg ttaattgctt agtgaatgaa cttctcccat 300
 cctgaggggc ttttcgtgat tcttcttggc cttggattgt tgctatcaat attactccct 360
 gtcttttcat tatgatatga naaataatat gaacacat 398

<210> 28037
 <211> 394
 <212> DNA

<213> Glycine max

<400> 28037

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tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agctttgtaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg acaacttggt ttgttgacta cgcttcatga tgtattttgg gccatacttg 240
atgtacattg tatattgggt aaatggttga catgctgaat gaaatggtgt ttctcaaagg 300
caaaaaaaaa aaaaaaaaaa aaaattcgaa aaaaaaatg aagaagaaga aaaaacaaaa 360
aaaaaagcaa taaagttgag tgaataagat ctta 394

<210> 28038

<211> 432

<212> DNA

<213> Glycine max

<400> 28038

gctgtctctc tctaattgt atatatatat gttattttta tgatataaaa ctaagcaagt 60
gagtgaagaaag ttttcctcct cacatattca aagcttcaag ttagtaccag agcgggtcgt 120
atccgcgcgc gtccgcgcgc gtcgcgcggc cgtttcaacc ggcaactaca gggttctgtg 180
cgctcgcagg agcgcaaccc agcccaacta accgctgggc caggagcttc cccacgcgcc 240
gtctccgtgc gcgcaaacg ccgggcgcgtg accaccacgt gccgccctcc ccttgccgga 300
aacgcgcgca tttgcttcgc accgtctcgt cgggctctcc tgagtcata tcagccatta 360
gtttttgggt tcggcacttc gttgagtgac cttgtgcctt ccttggtctt ctactttaag 420
ttcctttgat ct 432

<210> 28039

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28039

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taaggaaaga tagctaattg aggaagaat ggctaattaa ggaaagaaga ctaattaaga 120

aaagcagaat aattaaggaa atcagactaa ttcaaaaacc tgctaatacta cacctataaa 180
agaagatgaa aaaagaagga aaagacacac ataaattcca atacaatttc ttatagaaga 240
caaagactaa aagaaggaga agtaagcaat ggaattcatt ccttgccctct attctctttc 300
ttattttccc cttttactaa atatttcctt cttgcaattg taaagtcttc atgacaatga 360
gaggctaaca ccctttnttt gggaacttgg cagcca 396

<210> 28040
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28040

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ggctgggaag cccaggtggt gatcacacca gagaagcaat acttgccat gtacacaatg 120
ctgaacacca caaagcacac cagcagcatg cccagcaaga aggcgatcag tgccggcggg 180
gtgttgatg gcgctgcggc cgatgatgac gacatctgt actccgatga agacacagtt 240
cttcgtagtg ggttggttgc atggatgaga ggtgctttt tttatccgta gaaattgaac 300
acagtaccag gagtttataa cgcagatgag tgggtgttga gaccatatac aaagcaggca 360
aatgaagcta actaattggt aatagtaaag gttgatcnag tcctaattggc tcttcttttc 420
ttttctcttg tttctctct 440

<210> 28041
<211> 393
<212> DNA
<213> Glycine max

<400> 28041

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ataacaaact aatataagcc tttaatataa agcatatacc accaaattgt gaaccttata 120
cccaaataa caaactaagt aaagaatttg taaccaaaga ttactgaaac attaattaat 180
ctccagttgt taacaaaaag aagtgagaaa atggacctgc aaaaatggaa acatatcccc 240
aaactggatt atagacatta cctctacctt tgcaatcaca gcaccgagca gaactctctg 300

tttaaagcaa aagatctaca ttgcttagaa aataagtttg tgatctgcac aacaactata 360
 tgcggaaaac aatcttgaat agtttgtaat atg 393

<210> 28042
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 28042
 acctctcaca aaggagaaga caaagtaa atgtgtgtc tccaaactct taagaggtga 60
 gtttgaatcc ttacatatga aagagtcgga gtccatttct gattatTTTT caagaattcc 120
 cgtagtttca aatcaactag aaagaaatgg tgagaagtta aaagatgtaa gaattatgga 180
 gaagatacta tgctcgttag atcccaaatt tgtgcacatt gttgtgacaa tcaaggaaac 240
 caaagattta gaaactatga tgatagaaaa acttcaagga tcaactgcaag cttatgagga 300
 gaagcataag aagaagcaaa agatcactga gaaaatcttc aagatgcaac taaaggagaa 360
 cgaagatagt cgaggaaatg agagaagtca acgaggtgga ggtcgaggct gaagataggt 420
 acgacgtgga aacagtggac g 441

<210> 28043
 <211> 250
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28043
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 ttatcttcac tatcacatga taaatatcat gatgactgga tgttgatttc gctactgtgc 120
 ttatatgaca tatgaactat ggctgaaacc aatttaaggg cgtgatacat aacaatatat 180
 tatcattatt ataggaagtc ctacatatata tatatcaaat aggcattgtac aaaagaatcg 240
 gtatctgggtg 250

<210> 28044
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 28044

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tctttgtatt tgagaacaat actaaatggg gagccgggtac acgtaatcta ctactaactt 120
tagtgtagaa tagtggtaca acacgtatat atattcccca atttatggct ctttggttag 180
gattcgctac actatcttgt ttaatttaat ctttgatagg taaatgctct ccacat 236

<210> 28045
<211> 319
<212> DNA
<213> Glycine max

<400> 28045

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cttctggagg gatcctctga actgcccagtg tgggactggc tgctctttgc agtcctatta 120
ttatcaatca caccgccttg ctgatttggg gtggaaatcc actaccagtg ccgttatgac 180
aatgtaccaa tgcctaaacc catctgatgc actgacgaaa tgttactaaa ccttactgat 240
tatgcaagcc tcccttatta tgtcttcag agcgttacac aacttgacag gtaccacact 300
agcactaact tactattac 319

<210> 28046
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28046

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ggatggcgcc tcctctcacc tcttttactt tgacttccac tgcattctca tgggtggaaaa 120
tcaccattac aggaccccat tgaagctcac agatccagcc tccatacaag cccacaagc 180
aagtttccat cacaacacct attcatccat ctttatcatc tccaagatca tccacattgc 240
tttcttccga tgatcaacgt ctatggtata tctctcaatt ttcttctagg atcatcttac 300
acgctaagta cctatatgta ga 322

<210> 28047
<211> 376
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28047

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cgtgaatgta tgtatacatg attttgatga tgtcaaagaa gaatttaaca acgctgctat 120
caatgataag catttgcttc aagaatattt caagattgct tcaaccaaca cagccttggt 180
tcaagattca ctaaagacca agccttgctt taaaacaaag tgctttcaag acatgcatag 240
ctctggtaat cgattaccac gaagtgtaat ctattaccag aagacagggt tgagaaatat 300
cagctgaaaa acgttatgaa tatgaatttc tacatgtaat cgattacaca tatgtctgtg 360
atcgatcact agcatc 376

<210> 28048

<211> 386

<212> DNA

<213> Glycine max

<400> 28048

cttgtaagat gattgttacg attgttaacc atttaacagt tatacctgat aagattgtaa 60
attaatagtt cacgagaata tagtggtcctt atataagtta aatccccgag taatataact 120
ggttgcatat taagtgaaaa acagtaagat ggaaactttg gaaccagct accccatgta 180
tgctttatga ctcttaatgg gtatgaaaaa atacagcaaa aaaactggct cagttactca 240
agtgaggtac gcttggtgac tagaaattac atatctcaaa tagccgtcac agcagttcaa 300
ccttgatgta cgcaaggcaa agcattctca gaatgtgaac ataccaacat taacatacat 360
gatcaacaaa atcccttgac gaaaaa 386

<210> 28049

<211> 291

<212> DNA

<213> Glycine max

<400> 28049

tcaagcgtgt gccactttta tgagaaagca tcaactatga tgctatcagt tccaggcgct 60
taccgaatca tgctagcctt gaaacatcgc catctcccca tgatgcttca tgcatacat 120
gatacagata gagcttaccg aggetgatta tgaatagcca cccaccattc cctacttgct 180

gctgaccgat gcttaatcca ttgctgattt cacacgcaca tataaatgtc ctgatagcac 240
taccgtagc tcctctaata cgatttctat acttgatgcc tctgcgtcag g 291

<210> 28050
<211> 66
<212> DNA
<213> Glycine max

<400> 28050
gaatgaggct ggcccagggc ctttcggagc cctaaatgac aacgccgacc ttccagaact 60
ctgctt 66

<210> 28051
<211> 385
<212> DNA
<213> Glycine max

<400> 28051
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taataatatg gccgcgatct gtcattacgt gcgactatct ccactataga aagaaaaagg 120
agaagaacaa gcaaattccac acatactatt gtgataaata ctagaaatta tggcttttcta 180
catatacata tatacgtcac tacaacgata cttatcaact gtagcaaaga atgaaacttc 240
ttagaagtca taatatgaag aaatcaatat gtctagatac ccccttttct atggacaaaa 300
gagctaattg ataaaggaag catcgtactg atccattaac gcgcggttga accgatacga 360
taagaactgc ttacttatct catga 385

<210> 28052
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28052
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ctgtttctctg tgattggctt ggagcgtggt cctgtgtagc ttaagcggag ggcaaagaac 120
gcctgcttct gggggggcca aagccatcga cgagatacca ctctggaaga gctagaattc 180

taaccttgtag ccaggaccta cgggcccagg gacagtctca tgtagacagt ttctatgggg 240
cgtaagcctc ccaaaaggta acggaggcgt gcaaagggtt cctcggggcca gacggagatt 300
ggccctcgag tgcaaaggca gaaggagct tgactgcaag acccaccgt cgagcatgga 360
cgaaagtcgg tcttaatgat ccgacggcgc cgagaggaat ggccgtcgct caacggataa 420
aagttactct agggataaca ggctgatctt cccaagagc tcacatcgac gggaaggtta 480
ggcacctcga tgcgggtct t 501

<210> 28053
<211> 379
<212> DNA
<213> Glycine max

<400> 28053

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accatcatga agcagaaacc tagcaaaact acccatcata tctcccaaaa cccaataccc 120
acgaaaattt aggtgagaag aagtctaccc aaacctgaaa tttcgaggtc ccacacgtag 180
agatgcgctt catgactccg aaaatgcatt cctttcgcga tttcgagcag aaatgggtgac 240
caaaggttgg agctttgttg ggcaacaatg gtggatgaga gaaaagagga agaaggctgc 300
gtgagagaga gggagagagc ttctgaaatt tgggctgagt gagggagaaa gaaagtgtct 360
tttggttttt tacaaaaag 379

<210> 28054
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28054

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ctaggggtgt tttaaagggt taggaggatc agaagtggag ggaattgaga gaattaagaa 120
agaaaaagaa gaagaaagaa gaggaaacga aaccgaggcc ttaccaaatc gcaactatga 180
tcgtccctac gtcgtttctc gttcgggtgtt cttcgcacca atcggttagt tttattttta 240
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cttctccatt tattatgtgt cattattttc tctattttct tccccctttt tgtcaccatt 360

ntaattacta attagcctta attgtcaaatt taattatgca ggcttatcat ttgggcctac 420
atgactatat ttgtgtt 437

<210> 28055
<211> 384
<212> DNA
<213> Glycine max

<400> 28055

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ttttggagag acattaaagg agaacattaa ggaaattaag gccatttctca aaatttttga 120
acttgcacatc ggccttaaga ttaattttgc aaagagttgc tgtggagcaa ttggaatgcc 180
agagagttgg aagtctgaag caaccagttg gctgaactgt agcttgttgt ccattccatt 240
tgtctaccta ggaataccta ttggtgcaaa tccgaggagg ggccaaatgt gggatcctat 300
tatagcaaag tgtgagagag cattatccaa gtgaaaacaa agacacctgt ctttcggggg 360
gagagtaacc cttatccagt cagt 384

<210> 28056
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28056

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tcatctttca ttttttttgt caatgaaaaa gtatgttaac aaaataaaaa ttctcttatt 120
cacttcatta ctacatgtag gttcaccact aaacaagatc cagggttaaa aatggaaaaa 180
gaatgtgaga ataaatacaa agataccaaa aagtcaaact gagaaagaca ctataatcat 240
gagaagagtc tcaaaagaaa taatgtctgg aagtcaagaa aacctaccgc ggatgatgct 300
tgctaagtaa gctctccatt aacttatcag aataactac 339

<210> 28057
<211> 391
<212> DNA
<213> Glycine max

<400> 28057

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atggatcgct taaatttgga tgataaaaaa cttatattat catcatgttg gaaaactttt 120
tcttttttgc ctaacttaga caattttgga ggcaaataaa taaatgcttt catatgtgtg 180
ggtttttttt aatcagtttt catgttatgg tttgtgtgtg tgtgcacgca catcaaagat 240
aatgaggttc aaatctaaga ttttgtgtag gtagtgttat tggttccagc aatatgatga 300
attcaataat ccaaataaaa ccaattaaat tgattaaaaa aaaattccta tttggattgg 360
acccaaatca aaccaattaa aattcgatgt t 391

<210> 28058

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28058

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ttgccctcag aaactgtatt cttctgctat ccacttcttt ttctgtatgaa tttccctcaa 120
tcctttcttg gttttgttgc ttttcattaa aatttggtc ctttgcctatg ttgctgttat 180
ttttattatt taattctgaa gagtgggttc tgtcacaggg gtgttaattc gtgccacagg 240
caaggaaatt ttttaacttg cgatagtgtg tgcggccttg atgttntttt ttctccctgc 300
agcgtctggg ttacatgttt ttactgatat ctctcaagtc tgctatggtg gtttaatctg 360
tatctgttgg aagatctgaa ttttgccttt tatgttagca tgtgattctc act 413

<210> 28059

<211> 391

<212> DNA

<213> Glycine max

<400> 28059

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cacaacaagt tttccacatc cacaatcgc gcataaaccc accatcccct gttgccacc 120
tccaactgag ctcacgtact cccacgtagc ccatactctc gtttctctca acaccgggtc 180
cccatcaatc ctcccaagct tccccaacat ccaagtaata caacattcaa acagcacaaa 240

ctatcacagc caagcaaaac agggcaaagg cagaaaaactc tgcccaaaac accaaccaaa 300
 atcacaactt ttctcactta aagaccccag taacattttcc ttcgttccaa ttcgtttaacc 360
 gttggatcaa ctcgaaaatt ttactggaag t 391

<210> 28060
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28060

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 atattaatat agcactgaat attagtaacg tagtctttat atatatatat atacacacac 180
 acacacacac acacacacac acacatttat gtcatttcaa cgaggaacac acacacacac 240
 acacactctt acaatcacga aaatcttcgt tcggatcgca cactcttacg atggatacaa 300
 cctttgttct ctcttgattc tgattgcaca ctctcttcac acaaggttgg tttctcaact 360
 ccattatcta aggtttcttt tttatttcat taatttgcaa tttgagcggt gctctcattt 420
 gcatgttacc tggatttgaa atntacataa agtgtgtaaa agcaaatgcc tttggtgttt 480
 tgagatgatc at 492

<210> 28061
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28061

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 gaatttcatg tttacattac atgcacatcc cttcttcatg caaagttcat gatgataggt 180
 tagtgtgtct tgtacttcga cagcaaagtc acttctttcg tcatagcaag tctgcaacaa 240
 taaagtgcgc ctttggatga ggattatcat ctttcaaact atagacttca tttattcttc 300
 ataggacttt gaaaaatcct aaaaaaatat tttttgtatg aaagaatctt cagacacgga 360

gtaataaatg aatgtcttan atgcactact tg

392

<210> 28062

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28062

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gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga ctctcattca 120

tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc ttccttgaga 180

agctttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 240

agcttatcta cacacacca tctaaaaact aagctcacct ccttgacaaa atacatgana 300

atacacaaaa aanaagtccc tacgacaaag actactcaga atgccctgaa atacaaagct 360

gaaaccctat actactagaa t 381

<210> 28063

<211> 397

<212> DNA

<213> Glycine max

<400> 28063

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gtggatggcg cctcctctca cctcttctcc tttgccttcc gctgcatctc catgggtggaa 120

aatcaccatt aaaggacctt attgaagctc aaagatccag cctccataga agccctagaa 180

gcaagcttcc atcaattcaa gctcttatga accataccct catccaacaa ctcttttact 240

tgaggaataa tctcaagccc aagaggtgtg gcagtgctaa caatgtcttt ttacaaagaa 300

gaagatgtag aggttttcta agaggggaag tttctttaat gtttatcttt attgcaaaat 360

gaatttcttt cttagctaac ctcttgagg agacact 397

<210> 28064

<211> 406

<212> DNA

<213> Glycine max

<400> 28064

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acacagagac taacgtcgtc atctgtacat ttgtcaacca gagacggcga gtccgatgac 120
atgcagagat actttatggg tatctgcacc ttttgtcagc cagaggcaag cgagcccatt 180
gacacataga gacaatgtcg tcatctgcac ctttgtcatc cagagacggg gagtccgatg 240
acatgtggag ataccttatg gttatccaca ctttttgtca gccagatgca agcgagcccg 300
ttgacacgca gagactaaca tcgtcatctg cacctttgtc atccagagac ggcgagtctg 360
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<210> 28065
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 28065

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agctttcctt tgttttagat gtgatttata catgatttac gacttgtagg atccaatttg 60
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ctgtcaaatt ttgtgcagca gaatttggct cttgtgcata aaatgtttgt gtattgctgg 180
ttgtggaaag ggtattacat attgggttct ggacatttct agtagatccc agcgggtcaaa 240
atgtagattt atgtactatg gatctccagt ataattttca agtcgatcca acgggttaacg 300
aatcggaacg aagaaaatgt tactgcggta tgtaagtaga gaaagctgtc gtattggaat 360
gtgttatgcg cgaagctttc tgccatgccc ctg 393

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<210> 28066
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28066

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cattaaggaa taagccatgg aaaaaagagc ttcaccacca agatgggcct tggataagaa 180
gcttggaacg atggtccact ggaggaaaac aaagaggag agaaagagag agggggggagc 240

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acganattga acgaagaata cgggagagaa gttgaacttt gagttgtgtc tcacaagact 300
ctcattcatc aaagttacca caagttgtac acatgcttct atttatagac tacgtagctt 360
ccttgagaag ctntcttgag aaaacttcct tgagaagctt ctttgagaaa actttcttga 420
gaagctagag cttagctaca cacaccc 447

<210> 28067
<211> 386
<212> DNA
<213> Glycine max

<400> 28067

ttctgctttt ctgagcattt atgcgagacg gagaccaaca tgctagctat catcgccaag 60
taccaagaag agttaggtct agccgcggcc cacgagcata ggattgcgga cgaatatgcc 120
caagtatacg cggaaaaaga ggctagagga aggggtgatcg actctttaca ccaagaggca 180
accatgtgga tggatcggtt tgctcttacc ttgaacggga gtcaagaact tccccgattg 240
ttagccaagg ccaaggcgat ggcagacacc tactccgccc ccgaagagat tcatgggctt 300
ctcggctatt gtcagcatat gatagactta atggcccaca taattagata tcgttaggaa 360
acttgatatg tctctcagac cttgac 386

<210> 28068
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28068

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aggtaccact ctgtgggtcaa caataaaagc aggaagttcc acccttcaac acttctcat 120
ctcaagcttg taagattatg gggtaacctat cacatgtggt actaggtggc ggtcaggcga 180
tgggtocacaa caattttttc acatacacia agcgcgcata aaccacccat cccctattgc 240
ccacctccat ctgagctcac gtactccac atagcctata tctctgtttc tctcaacacc 300
gggtctcat caatgtctcc aagcttccac aacatccaag taatacaaca ttcatacagc 360
acaagctatc aca 373

<210> 28069
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 28069

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 acagcagaat aattatgacc tctccagcaa cagatacaat cccggatgga agaatcacct 120
 taatctcaga tgggtctagcc ctcaacaaca acaacagcag cctgctcctt ccttccaaaa 180
 tgttgctggc ccaagcagac catacattcc tccaccaatc caacaacatc aacagcccca 240
 gaaacagcaa aaagttgagg ctctctgca accttccctc aaagaacttg tgaggcaa 300
 gactatgcaa aacatgcagt ttcaacaaga gaccagagcc tccattcaga gcttaactaa 360
 ccagaatggg aaaatggcta cacaattaa t 391

<210> 28070
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 28070

tgatgtgaga aagcgtggaa gagtcagtct ttctactttt gtttgttgac cacagagtgg 60
 tacctggaga tatgtcgcg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atcccagccc aaccgggca tagtcagtca gtgagaacct 180
 gtgacgtacc taaacaggcg agctcctggc agtcaaccaa taaaagaata aagtccacaa 240
 agcaaggagg cttgtgtggc ggctggccag ctatgaatct tgagtgggtat ctggaaaatg 300
 gcctctggta atcgattacc aaggggtgtg aatcgattac agggccttaga aatggagaca 360
 ggaagttaaa atggcctctt ggtaatcgat ac 392

<210> 28071
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28071

tttagcctga taagctnttg ncttatctag cgtctgggtac gtgtcatata ccatagtagg 60

taagaatata aattggatac aaataaatta cccttatgaa aggagagggtt atgggggatgg 120
cagtaactag ggcaggggtg gtaacagaag cattagtggc agcgatggta ttggcagcat 180
cagaaaagga agaataattg tgcgacagtt aactcctgat tgatagtttt ttttctacaa 240
tgttattttt ttgtgtggga aagagaatgg gacatgtgat ttggttctgt ggagatgagg 300
gaaaaaggga aaaagttgtg tatectatca taattcttcc taacctaact cccttttctg 360
tatacatnta acctaatacga cgac 384

<210> 28072
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28072

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gcaagaggga tttcgaaatc tgcccaattt gtgcagcaaa cagctgtcaa atcttgtgca 120
gcagaatttg gctcttgtgc aaaaaatgtt tgtgtattgc tggctgagaa aagggtagta 180
catattgtgt tctggacatt ttctaacaca tcaaacggtc aaaatgtaga cttatatact 240
agggacctcc agtaaaattt tcaagtcgat ccaacggtta acgaatccga acaaaaagaa 300
tgttactggg gtatttgagt aatgaaagct gtggtattgg aat 343

<210> 28073
<211> 340
<212> DNA
<213> Glycine max
<400> 28073

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gcacgacgtg ggactaaggc ataccataac accccagtcc ctatcactag ctgacgactg 120
cccaaacttt ttgagctata tataagccat atctcctatc gatgtgggac taaaccacca 180
cacgtgcggt tgcaattgag gcaaccgcca cagaggccac aactaagggtg ggctagggat 240
gatagcaatg aacgctgatg tgcaacactc tccctcgtgc acagagatac cagcatggag 300
agaggcacat gcaggaggcc caacaacaga tctaggataa 340

<210> 28074
 <211> 224
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28074

tgtcagcgat gaggagccca ctgcaacggt tttttngtat actaggaaac agcgcctcag 60
 cgaccgacaa actccggcgc taaatcatga aatacagacg ggagtagcat taggaaccaa 120
 aatagcgacc gaggccatta cggcgcgaga acccaagaga ctaaggatat cggaagcgaa 180
 tatattagac gagtgtctatt tagcgaccga actatccgac agca 224

<210> 28075
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 28075

tttctagctt gcgggatacc tgaggtccca ctaggaagcc aaaggcccta atgagaatgg 60
 ttgaataaaa acaaaactaa agtgagtatc aaaattcgtg atgaagcacg gctccacaat 120
 ctagtattta tctgctctaa agtgaaatca taggtgaaat tttgcttgca tccccatgat 180
 ctcatatgca cagtgttgta tcatcttacc aagcaatagc caaaaaaata aagaataaca 240
 gaatgaccaa cttccccgct attttccatc cattttttctc aaatcagtat tgaagcggag 300
 gataaaaatc agaagagacc atgatgtgaa gtgatgcacc tgaagaatag accatgcgag 360
 gttgaatagc gtaacgagc 379

<210> 28076
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 28076

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 ttgttgtcaa gtttttttct tgaggatgat atgaatcaca aggatcggga atattcccat 120
 tctttctaca gctaagtaaa ctataatctc caatactacc aaacttgatt ccaactccaa 180
 tcaagttttc atggggcagt gccaaagctc cctcctctaa atcaccccat cttgttttct 240

gggctaagtc aggcctaaca gtttggtata atttcctaac ttcttcatgt ttaccttgag 300
aatccatagt aagtaatgta gacgatttct gactttcagt attatgtcta actacaccag 360
tattaagaca gtgtgtgccc tcattttcat ttgattcaaa aatagaactc gcaacactcc 420
caggacagg gttctgt 437

<210> 28077
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28077

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aactacagca actcatggta catataggat gtgcggccgt gatccaagat aaagagtctg 120
aaagcttga caagttgttt gatcttgaga aactcagaat atcatggagc gtgtttgact 180
caacgtacag tgctatacat gtcactctgc cttcagaatt gagaaaaggg catcctgaag 240
ggtttcctgg acgaaatata ccagaatggc cgatgcctga catgatgagt ccgagtttgt 300
gcgaactatc tataacaaga ggaagactca naggggtggat cttcaacact atgtca 357

<210> 28078
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28078

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cttcaaattc accgtctcta ttcgagggac atctctctct ctctctctct ctctctctac 120
agatattatt ttacaaatcc caacaatgag aatgtgagaa catgagttcc aaaggtagta 180
ccaaattttc aggacgatcc aacggttaat gagttcaata tcatagtttt attaaaacaa 240
gtttgggtgt atgcgagana aaagacagag ttttgggata ggaagaagag agaacanatt 300
tgtgagaaag atagaacata gaaacgtatc gtanataata aaattgacct aatatgtctc 360
tatttatagc taaggtattc tgagtc 386

<210> 28079
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 28079

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 tgacatgaaa aagaacggaa ttgcacttaa agcctcatct tctattcaag acgaaagtga 120
 caatgaggac ttgaatgaaa taggagaaga tgatgatttc agtttcttcg taaagagatt 180
 caataagttt ctaaggaaca aaggaaatca cagaagaaca aacttcaata taaagaaaag 240
 aggagaagat tcctcttttg atccagagag ctatgaatgt aatcaacctg gacatctgag 300
 agttgatcgc cctagtttca agatcagaat ggaaaaatct gatatgaaaa cttttcaaga 360
 taagaaagct aagagaagct tacatcactt ggg 393

<210> 28080
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28080

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 atttggtttt agagtttagaa aagcatgaaa attaggactt gcttgtagaga gtttttactc 120
 gaatttgggc tgcccatga tcgatacttt gcacctaagt gacgtgggaa atgcttttca 180
 atggtatgtg gatatatgtg gggcatgaaa ttccttgcca agtgtgaatg attattttcc 240
 taaatgaatg tatgatagca cgtaattccc ttttgaatgc aagtgtgtgc ataatgtaaa 300
 tagcttgcca atatgaataa atgtgagtga tacaataaa tttgtatgat atata 355

<210> 28081
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28081

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 atcgataagc accttggcta tgacgtgggc catgcacttg actgatacat gtaaagccct 120

gttatgccct ctccccctcg cagggatttc ttcttcggcg aaggagacat aattgttggc 180
 ggtgatatta ttgacgagtc ctccaaagcc ctctacagag atatcttgag ccacatgagc 240
 ttcggttcaag aactttacta gcaaagcctg atgaggetca gagctcatga gtaattccaa 300
 aaaagagacc atggccggng ttttgttgag ctgttcaatg accttgaact cgctctactg 360
 aataatgcgg agaaactcgc ttgcttcctt ta 392

<210> 28082
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 28082

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 aacaagtttt ccatgtggcg tccctaaatt aatgactggt ttaatagtaa taatttaa 120
 aacaaaaacc atggtaattt ttttttctct tcgttttctt tttcatttct ttctcttttc 180
 accataacta ggtttagaag ggaaatcctc actataaagt cctgaatggc cagttcacia 240
 ctttactcgg agtcatttct ttcttaccgc tcataattct cttaaattatt ttgctgtttc 300
 aaaaggaaga atataccagc cattacttta ggctgtcacg tgaaaataaa aggataaagt 360
 acagtcggta aattctttta caaataaagt tgctaattgt ctctgttcaa ataacaagat 420
 cgatcataaa tgcattcatc attt 444

<210> 28083
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28083

agcttgtctc ataaaggtcc aggaaggaca aggcggccga aggaactagt tccgtcctg 60
 agtatgacag tcaccgcttt aggagcgccg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcatt tctccgggag cgacgcgtcc agctcaggga cgacgagtat gcggatttcc 180
 agaggagat aggtcgccgg cggtgggcat cactagttac ccccatggcc aagttagatc 240
 cagaaatagt cctcgaatta tatgcaaagc cttggccaac agaggagggc gtgcgtgaca 300

tgaggtcttg ngtaaggggt cagtggatcc cgtttgatgc cgatgctatc ggccagctcc 360
 tgggttatcc gttagtgctg gaag 384

<210> 28084
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28084

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 gctagtcttg cgcttagcct ggctgaaggc acctgctgcg cttagcgcg gcctttgatg 120
 ttgatgctct gccagattct ccttcgcgct aagcatgctg aagctacgct tagcagtgga 180
 tgcacgctta gcccaactgc tgagctaagc ccaactgcta ctttttgcaa ttcaaaactt 240
 agcctctttt tcacctgaaa atgcacaaat ttcattcatta aatccaatgg atatgttcta 300
 gagacagcgt taaccataaa attgtagaag taaagacttt gactntgggtg ttttgatgat 360
 gtcatatgat catggcgctt tgatgcctta tggaaatgcg cttctcaagt ttaattcaag 420
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<210> 28085
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 28085

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 gggcctcttc ctcaacatac actttcgcta ttttcattcc cttttcaatc tttttctta 120
 accaacatta accgataaaa tccacatgca acacctacgt ggagatgccc aaatgggttg 180
 atacagatcg ataatatatt atgttatcgg ctttcttcgg gttgagcttt tgaagcccga 240
 aaatgactga tgctcaaccc tagatgtgga gatgcccatc attttctagt catcactgac 300
 tttgttaaaa ctcggaaga acattgtcag taaaaaaaaat caattaatcc aagcattaaa 360
 agtaacaaca tttcaatttc taataaaaaa cagc 394

<210> 28086
 <211> 447

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28086

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cttcaaaata tcaagaaaca aatatgagaa gaagccaaaa aaaaaacacc catgattcca 120
taactcatgt ttatggactt tttaagttgt ttaaagctaa agcaataagc tcaaagtttt 180
tagaaatagt caatgactat gatttcattc ttgatgtttt tgggtgtctg tttgtcaccg 240
caattttacc aagttgacat ctcttccttt tggtagtgtt gaggttcttc agcaatttgg 300
gacaaagcgt atttcctacg aaactaaacc ctanaaagct ataatttctt tntgaaacaa 360
ttcgtggcat aatgaatttg aaatatgtta ccctatcaca atcaaattcca ttgaaaacat 420
tatggttatc ccaangtatg taataca 447

<210> 28087
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28087

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atgtcaaaat acatgaaaat acaatgcgaa gcttccttga gaagcaagga aggtaacttc 120
cttggaagc aaggaagaaa gcttccttga gaagctagag gggggctact cacacccttc 180
caatagctaa gtcaccccc atgccaaaat acatgaaaat acaagaaagt ccctactata 240
aagactactc aaaatgccct anaatacaag gctaaaaccc taaactacta gggatatctt 300
aacttgtagc cttaatttgt agggatatctt acaaacctaa aatgggtcaaa atataaggcc 360
caaaagaagg aaaacctatt ctactattgg tcctt 395

<210> 28088
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28088

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cttaagaagg ggggattgaa ttaagatata acaaactatt cccaattaa aaattctact 120
tttaacttaa cccaacaatc caagattcct tttaaacaag aactcctaga taataatgca 180
aattaatctt actaaataaa aaataataag caataaacag taaaggagtt taagggaaga 240
gaaaatgcaa actcagattt atactggttc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagagt tccactatct tgcaaaatcc atttacaaga tctgaaccac 360
acaaggacaa cctttctttt gtttcagatt tctttcaaca agaggccctc ggtctcttaa 420
tccct 425

<210> 28089
<211> 338
<212> DNA
<213> Glycine max

<400> 28089
agctttttaa ctttgtacaa taataaagct actgaataga agtggcctca gaaatcttaa 60
agctctgata ccacttggtg gacaagtggc ctcagaaatc ttaagaaaga ggggggttgaa 120
ttaagatttt acaaactatt cctgaattaa aatttctata tagattttga cccaagtcc 180
aagattcctt ttaaaatgaa tttctaaata ataattcaaa ttaaacttac tgaatagaaa 240
taataagcaa caataaataa aagagtttga gggaagagag aatgcaaaca cagttttata 300
ctgggttggc aaagtccatt gcttacgtcc agtcccca 338

<210> 28090
<211> 419
<212> DNA
<213> Glycine max

<400> 28090
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tcagagagac catacaagtt tcctagcgat ttctaattat gtgggccatt aagtctatca 120
tatgctgacg atagccgaga agcccatgaa tttcttcggg gccggagtag gtgtccgcca 180
tcgccttggc cttggctaac aatcggggaa gttcttgact cccgttcaag gtaagagcaa 240
accgatecat ccacatgggt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300

ctttttccgc gtataacttg gcataactcgt ccgcgacccct atgctcgtgg gccgtggcta 360
gacctaactc ttcttggtac ttggcgatga tagctagcat gttggtctcc gtctcgcat 419

<210> 28091
<211> 388
<212> DNA
<213> Glycine max

<400> 28091

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tcatttaact gtctttgggc ttgtcggcca cgattaacaa agtactttcg acacctactg 120
tatgttgatt taaccaacgt tgttatgggt atgttgcgac aattcttcaa aaccttattg 180
atacattctg agagatttgt tgtcatgtgg ccatatcgac gtccttctct atcataagtc 240
atcgccatt tttcctttga aatacgatta atccatgttg ctatagctgg actcaattga 300
cgaaattttt ctaaattttg atcaaaaatg tgcttacacg gagtgtagcc tacataaaat 360
ttgtttggaa caacaattgt aagtatat 388

<210> 28092
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28092

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ttagccaaac caatcatctt caaggacttc atttccata tttggcaatg agaattggaa 120
aaagtgagag agtatttttag tgaagacaaa agcttggaga ttgaaataag attgaatttg 180
aagtttggaa cataaagaac atcatgtata atgaaatgtg gcgataactg cacatttcct 240
gaaatatgag caaaaacaat ggaaccattg ggtaagtgga tacgcacagg ttgtattttg 300
gaaaagctta caaaattatc aaaggaacat gtaatgtggt ctgtggcccc agagtcaata 360
atccaggggg tgcaattaga aaaacaatgt gcagtgtgtg cattagacaa 410

<210> 28093
<211> 107
<212> DNA
<213> Glycine max

<400> 28093

cggcctaacc ttatgatacc ttgactatct cttttacatt cctgttatgg atctctaact 60
acgctatggt ttgactaaca taaagggatg ggcagatgta acatgat 107

<210> 28094

<211> 385

<212> DNA

<213> Glycine max

<400> 28094

gtgttctaca acattagctg taagcatatg ttgttgtttc caaacgggtg gccatatccc 60
tttctggagc ttaataacaa gtgggctcct atatgggtggg tgacacacaa tataaaattg 120
ctcaagtctt gccttattcg aattgccttt tacttattaa actacatata atgcagggtat 180
ttgtgcttgg cagtaattca tgccccttgc tatggcgtgt attatcttat agtgcgagac 240
aaaaatacga ttctccccag attgttcctt caagcatttt tgtcacagga agttccagag 300
tatgaaggaa tcctcagact atgaagcatg ttgagaaaag gaaaatgtcg gtggaattat 360
acccaaggtg gtggagacaa tattc 385

<210> 28095

<211> 386

<212> DNA

<213> Glycine max

<400> 28095

agctttgaga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaagaa aaaggagag agttgaact ttgagttgtg tctcacaga 120
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agttttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cgcacaccca tctaaaaact aagctcacct tcttgagaag 300
ctagagctta gctacacaca cccattttta aactaagctc acctccttga caaaatacat 360
gaaaatacaa aaaaaagtcc ctacta 386

<210> 28096

<211> 357

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28096

tggcatccaa aaccattgtg gaagcaatat gttgagcttc agccattttg gttttctgta 60
gaaggtctct tatgtattta ctttgagtta gaagaataga gccatcaatt agagtcttga 120
cttcaaatcc caaaaaatag tccagcttcc caagttgttt aagtgaataa ttagaatgaa 180
gtttgataat aaattgttgg actaagttga tagaactacc agtgattata atatcatcaa 240
catacaccaa aagataaatg atatgagagg tatctttgaa aacaaagaga gatgggtcac 300
acttgcttgc agaanaacca agatgcaaga gagtagattn tagcctgtca aaccact 357

<210> 28097
<211> 380
<212> DNA
<213> Glycine max

<400> 28097

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ttttttctcc agcatttggg agattaaggc ccttccttct gtgctaatta tgatttggag 120
ggaagctcac aatagattac ctacaagatc taatctttgt aagagagata tcaatgtgct 180
aggtaatttc ttgtgcttgt tgtgtggata tgtggaagag tctgttgatc acttgtttgt 240
tacatgctat gtgtcgataa gaatatggaa attttgctac aattgggttg gtattcaatc 300
agtaatggca aattccttgg agtcattata cttgcagctt ggttattctg tctatggcaa 360
ggagggatca taagcctagc 380

<210> 28098
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28098

tcatccgcag attcttcttg taagactagg tttagactat acaacattat tgtaacaaca 60
taattaaac caaaacttaa tccacagatc cctcttgtaa gactaagctt caatcctgct 120
tcaatcaaat tctaaggcaa caatacattt cccaatgcta tagtcaccta actatgcata 180

caaatggatg atcagaccaa aagcatacaa acattaagca ttgaaggaat cattgaacac 240
 aaaaaacata atcaaataga tattaagtat ttacatcagc tgttcattag aaatcctcaa 300
 ccagggtggt tagccaggca ttacaaagaa accctaacaa taaatgagat taacagcaga 360
 gaattatagt tcgttacaca agaaggattc ctctctctct tctcagcatc tcacactcac 420
 tctncaacga actaatc 437

<210> 28099
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 28099
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 ggtgcggtgt atttttagtct ttttcaatct agccggcaaa aactaattgc ataataatct 120
 aaacaataat aaaatattaa agataaaaata tgaaaaaaaa tattgattct ataatttaga 180
 aataaagtta acacataaaa actaattgta taacaattca aattaatata tatatatata 240
 tatatatata tatatatata taatattaac tcttagatca tttttttggt agagatccaa 300
 tcaagtgaga ttaactctga aggaataaag atcaccacat aaagtttgca tctctcaata 360
 cattatcag 369

<210> 28100
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 28100
 tagcgtgaaa gaggcatact gagacttatt tctctattga atacatcata agcctgagta 60
 tctcattggt gggagcctga cagaccaacc tcttgtaata taactcttcc ttactatcta 120
 tttaatgcaa tcttggtttt tattggtctt ttatgtgatt tgttggttgc gattgttgtc 180
 tggcaactca tactcatgca ttgttttagaa aataatacat tgaaatatgg ttatttttcta 240
 aagaattggg aaaggacatc aatatgaaat cattgctagg aataaactga tgtttgttta 300
 gcctatttca tgcattctta ttcttaactc aatttactat tttatcttta ctaaggaatt 360
 cgggaaagaa aatagataaa ttatgcttat catgcggcga acccaagata gagtatcata 420

gt

422

<210> 28101
<211> 175
<212> DNA
<213> Glycine max

<400> 28101

catgatacaa taaaggcttt caggacagat acaatttatg cttcgccaag gggagatgga 60
ccactttcaa gggctggatt gaatcactga caatgcttac taagtctagc tgccccgtga 120
gtatgatgtg aatatcacct tcaacgtctc tgacttatct ctttttgatg cagat 175

<210> 28102
<211> 354
<212> DNA
<213> Glycine max

<400> 28102

tcttgaatac tcgctaagtg actgtttctt tttcagttat atatatcgta ttgcgaggac 60
cgctaagcga ctgctatttt gctaagcggc ctttatcttt ctgttgactt gattcttgta 120
aatgttcaca ttcttttctt atagatggcc tcaagaaaga gagcatgagc tgaagacatc 180
ccttcatcat ccaaccacc ttcttcgata gcgaccatgg aaccagatgc ccaacaagca 240
ccaccataa ttcctatggt gcacagctta ttcagtaggc agctgggtgat tgtataaac 300
caggagtatt tagctcacag tatgctaata atatccatgg aacaatgtct ggac 354

<210> 28103
<211> 376
<212> DNA
<213> Glycine max

<400> 28103

agcttgggag gattgatggg gaccgggtgt tgagagaaac gaggatatgg gctacgtggg 60
agtacgtgag ctcagttgga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120
gatgtggaaa aaaaaaacta tttgtgcacc atcgcccgac cgtcacctag taccacatgt 180
gatggatacc ccataatcct acaagcttga gatgaggaag tggtgaaggg tgaaacttcc 240
tgcttttatt gttgaccaca gagtgggtacc tggagatatg tcgcgggggt caggagacct 300

tggggacgtt aggtggggtg ctatttgcca taaccaatct tgacctatcc cgacccaacc 360
 cgggcatagt cgggtca 376

<210> 28104
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 28104

actcagcttc tatagaaggt cgtcctatct tctactttgc ttacctctca atgagctggt 60
 gaagaagaat gtggcattta cctgaggtga aaaacaagag caagcctttg ctttgctcaa 120
 agaaaagctt actaaggcac ctgttctagc tcttcctgac ttttctaaaa cttttgagct 180
 aaaatgtgat gcctctggag tgggagttgg agctgtattg ttacaacgtg ggcaccctat 240
 tgcttatctt agtgaaaaac ttcatagtgc caccctcaac taccctcacct atgataaaga 300
 gctttatgcc ttaataagag ccctccaaac ttgtgaacat taccttggtt ccaaggaatt 360
 tgtcattcat agtgatcatc agtcactt 388

<210> 28105
 <211> 149
 <212> DNA
 <213> Glycine max

<400> 28105

tgatgatctg agacctcata atggctggct catgaatgat ataacattat atatgttata 60
 atgttgctga ccaatgacct aatgggtggac taggatccta acatgtgaga atagttattc 120
 aagtcttgga aatataaaac taataacta 149

<210> 28106
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 28106

ctaagctggg ttataagtga attctcacat atggcatat catttatcta tatttaatga 60
 tctgggacca cattttggct gcaacatcaa tgaaaaaacc ttaaataatgt tttaaggtag 120
 ctgataaatg accgaatttt gttcttgggt cctaataaaa aaaatttggt aatttaagtc 180

tccgatatat taaaactttt aactttcggt ttgagtggat gtcacgcgtt aagtgaagac 240
 actgttgata atattataat gtgacatgtc ttcactaaac tggcttaatg gactccgtac 300
 aaaatgttca atacattgaa gattcaatat aacaaaat 338

<210> 28107
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 28107

gactaaatct aagtctaaac tgtagaccat gaattctttg ttatcttcta gcactactct 60
 acgcctgcaa ccgtgggggt taacgcactg tatggaattt gctgccacta aagattaaaa 120
 acaatagtgg tggcataaga gaatcaagca ttaacttcta agtccgtgat catacagttt 180
 cttatattgt ctgacatctt tgtcttacag atcttagtat attatctttt ggaatgaata 240
 tattgagttc tgttttgact gtacacagca ttgacttgtc taccacacct gtggaattta 300
 ctttgtataa ctccaatttg aatatcaaga tcccatatac tgtcagattc tcggtgacta 360
 cccacattg 369

<210> 28108
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 28108

acagatgata aatagacaaa taaatatact ctcacaaaca ctttatcacg tgtttacact 60
 gtcataccct aatttcgtcc ggggacctat gcttgatgac atgcgacttt tctttggacc 120
 tagcgaggag cttggcaccc atcattatgc aatttgtgaa attccaggac atgccggaaa 180
 accaaaaaaa tattgatgca caatccgtac gtttccgtga cacaccggaa ttcaaattgga 240
 ggcatcatta cataattaag tgaggatccg taacattccg taagtcaaaa aggggatgat 300
 catagtatcc gaactgtccc caacattaca gaa 333

<210> 28109
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 28109

ctttgagctg aagcgcagtc cttgcctgga gagtttaacc cttggatcac cttaccctta 60
aagaggtatg gaggtgagaa gatgtcccggt gcattatcta ggaatccatg tgggagggag 120
cttcaccacc aagatgagcc ttggataaga agcttagaga ggatgcttct ttggatgaac 180
agaagaacgg agagaaagat agagggggga gcacgaaatt gaaggaagaa accgggagag 240
aagtccaact ttgagttgtg tctcacaaca ctctca 276

<210> 28110

<211> 213

<212> DNA

<213> Glycine max

<400> 28110

ttaatgcctt tacccttttg aacgaaaata accttatagg ctgattgttg atgaaagcgt 60
ggcatacatt agtaaccccc aactggcaac gtgtcactca ccatttggtc ttcacaaaag 120
ctgatgccta agctgacgat tgagcgctta ttacaacttg aactaacctt agctatagcc 180
cttttaatat atgaacccat cacatctttt tgg 213

<210> 28111

<211> 640

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28111

cccactatct ctactcacac ttctccacaa tatgatactc tgagtgtaaa acggacgaca 60
agaaccacta nnaanannan aagaaaccgg ggtntttttg aactgtagc nacnacgaga 120
cacnananaa aactcaagcg gggagccaan ncaaacgaca agaacgggaa acccgatatgt 180
ctgancgaga ccggccatat atcgagacgc tcgaaatcga atgtggaaac tctgaaccaa 240
ctaaacgaac ataaactttg tactcgggac gttaaagatat gagcgccccg taaaataat 300
cggaggacgc ctngaatat cngagacagt tggaatgcct ctgcgatgcc atagttcaaa 360
tacgatcaaa tacacatcgt ataacatcga ggatggacta gatatcgaag ggcccctcgt 420
tactataatc tgacgaccgc ttcgcaagat tcgacatgct ggaaagcctc ttgagaccaa 480

tatcataacg acaaataact ctttctacct caaatgtcaa gatgtgaccg ccccgtaaca 540
catcagacac cgctccgaca atgaaatgat tgaagctccc gagcaaagta caaacaacaa 600
taacatccca actcaggaac ctgactcaga cctgggtaccg 640

<210> 28112
<211> 557
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28112

cggaccggnn nnctggggcc ttgattacg ntctgactct ctctgtggac gatatacgag 60
tctctgcgac ctctgtggac tactctctta tagtgccggac tctgganang acatagtcta 120
agcatttctt gtctatgtca ttacatacga tatctctcgt gatgcggata tagcatatga 180
gcacaactat ttgctcacca cttaaaagtg agaaactcta ggaggatatg ctgccagata 240
cagcgtgtat gacagctatc tggtagcata atgagattca tgacctatac ataaaatcat 300
ctagcagaat atggataata tgactgtgat acgttactca actaattttc acgaatggac 360
cattgctact atgaggggtca aagcctatca aggtgcattc atggagccct tgtgggtcaaa 420
tttcagggca tctttggata ccaatcttaa gagggccttt ggtaacaca ttggctatat 480
gtagtggagt ccttgggtggg agacctcgct gctgattcga aggacgaact cctagcgcgt 540
gtttccgctg atttctg 557

<210> 28113
<211> 413
<212> DNA
<213> Glycine max

<400> 28113

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ctttatttttg atcgaagagt gtgagaaact attgacacca tataaggaaa atctgggtggg 120
atgcaataaa tattcgctat tacgctactg gtacataatg gtttcttacc tatatttttt 180
catctgcata tattttcttc tgctttctaa cgttaccaaa atagtaaact gattggggcca 240
ttgcaactat tcgtttcaga agctagcaca atgcaatagc tcatcaattt tctacaatta 300
agaaggcatc aataaattag caaaaagaga ggacaatttg ttatcacatt ctctttcttt 360

ccgtgagtat tttgttgga accgcagtag ggatgcacat gacaatttcc agc 413

<210> 28114
<211> 387
<212> DNA
<213> Glycine max

<400> 28114

tgcatgcatg ctagcttgta tgcattgatt gtaaggcctt tgccatgagc agactttggg 60
tgtgaagtaa gttctccatt gtgtacaat aggaggaaaa ggacaatgat ccttttaaaa 120
aaagcttcat tgtcatatat aaatacaaaa gacgaaatta gtggaaaaaa ataaatatta 180
tctaataaag gtaaattgta ttttagtaga tattatgtac ctgcacaaag tgatttccat 240
cgacaagtct aaaggaaatg agacgaggtt gtgctggcac gggacatgct atgttgcacc 300
aatcatgatt ccattgtgtg aaatttcata acagaatcat gattccattt gaccacgaaa 360
atgaaaaaaaa aaatggcagt gtaagtg 387

<210> 28115
<211> 243
<212> DNA
<213> Glycine max

<400> 28115

tacacaagtc tgctattacc tatgcaagaa tccatgtgct cgtggaacgt acaaagatat 60
ggagactata taccaccaat tatgagatca aggggattat ggacgaccga tgtagatat 120
tggcacatgt gctaactatc atgccatcgt catgacaaga tgtctgaaga tcgagagggg 180
tgcatatccg ctgaggagaa tggcactgag cagctctaac gcctttaact tggaggagag 240
tgt 243

<210> 28116
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28116

ttatgtcaaa ttgctttggg ggtatcaagt tcaataatga tctttatagg agtactagca 60

<210> 28119
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 28119

acggtatgtg gatacctcca cctctggaat accattgagg agcgccgcct tcataaccat 60
 atgaagccac tcagaaacga tgtgagctat gagagcctat agtactcctt gagtgtcata 120
 cttacaggtc gaggaatacg tcgctatgcy atcgatccct gctgttagag cgggacctat 180
 agcagcgaag tcttgcccta tgtctgataa tgaagactgc tgagactgag tgtgacctgc 240
 agaaccatat acatccgacg gcttttacac catcatgcaa atctacgaga tcgcgagctt 300
 gatc 304

<210> 28120
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28120

tagaacaata tacttgtcct tcatttaatt gtctttgggt ctttacgacc acgatcaaca 60
 nagtactttc gacacctact gtatgttgat ttcaccaacg ctgttatcgg tatgttgcca 120
 caatccttca aaaccttatt tatacattca gagaggttgg ttgtcatgtg accatattga 180
 cgtccttctc tatcataagc catggtctat ttttcctttg aaatgcgatc aatccatgtt 240
 gctatcgctg gactcagttg gcgaaatfff tctaaatfff gataaaaaaa atatgcttgc 300
 aaggagtgta gcctgcatga aattagttag caacaacaat ttttaagtata tgtcaaaactt 360
 aaattaaggt gagcatgatc aacgaaatgt tacccaatnt cttcacattt ctt 413

<210> 28121
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 28121

tggtagcaga agacatgccg gagaggacga gacactttgg agacgtatct tgtaatgcta 60

cagtcactaa ctaagcctga acagtcctgt gagcttaacc ttcactagag tgtaagtgat 120
 aaactgagat gaacctcttg attcaatcac cagtttctct tcccatttgg tgtacacaaa 180
 ccaccaaact gcgtatgaag acacggcttg acacatgcgc tcctaataatgat acatgagaag 240
 ggtagcctat ggcatacgtt tactag 266

<210> 28122
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 28122

tgaaacttct gctttttttt tgtttacata gtggtacctg gagatatgtc gcgggggtca 60
 ggagaccttg gggacgtcag gcggggtgct atagcccata acacaagctc gaccaattcc 120
 taccatccc gggcatagac tgtcagttag aacctgtgat gtacctaagc aggcgagctc 180
 ctggcattca acatataaaa ggatcaaaga ccacacagca aggaggctcg tgggtggctgc 240
 gcagctgtga atattgtgaa atatgtggat tgtggcctct gacaatccat tacaatgctt 300
 ataactgacg acaggaggct cacatggctct ctggttatcc attaccaagg ggt 353

<210> 28123
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28123

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 aagagtgttg gagctgagaa gatgctccgt ccattatctg ataatccatg tgggaggag 120
 cttcaccacc aagatgagcc ttggataaga agcttagaga ggatgcttca atggaggaaa 180
 agaaaaaggg agagaaagag agagggggga gcacgatatt gaaggaagac aaaggagag 240
 aagtagaact ttgagttgtg tctcacaaga ctctcattca tcanagttac aagtgttaca 300
 catgcttcta tttatagact angtagcttc cttgagaagc tttcttga 348

<210> 28124
 <211> 195
 <212> DNA
 <213> Glycine max

<400> 28124

tctagccaaa tggacttagc ttgaattaat tcctttgttt tccctttgag cctattttcc 60
cctttctttg ttttgaagct cattacaagc cttaagttaa aaaccatgat atcaccttac 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agctgggaat aagtgtgggg 180
gggggggggac gatct 195

<210> 28125

<211> 312

<212> DNA

<213> Glycine max

<400> 28125

ggatacttcc tattggaggg cgaccttctg tcaactgatat gtgcttctgt actctccgcg 60
tgcatgtaca tggcggaat tcatacctta gaggacacta cattgacgcg tcacatgatc 120
cagcgctact ataactctct ctaggtgcct tccgacaggt ggctatcaga gcgtaggagc 180
ttccagtcag agctcgatac acctgaatta acttaatttg ctggaccttc tgtgacatag 240
ctattgctac atgtctctcc gagtgtctac tggcatgtca tgaggctctg cctgtctacc 300
tgatcact ga 312

<210> 28126

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28126

tatctattgc tattcagaac taagtgtttg gagggtctaa tcaagaaaat tgtgatccaa 60
gcatgaaagg cagacaagtg ttgatccttt ctattcttct caaaaattct gtcttgatat 120
ggtttcttat cttctgtgta ggtagataac ttcattctta gcttaagtgc atagtttgac 180
tgctcatagt ctttgaaact tttctctctt ttaggcgcct tcagattgat gtcttttagtt 240
tggaaggtct ctccaaacaa agtttgatcc caaggaagaa caaaattgag ggaacaaagg 300
tgactcatca attgtttatc gtctaaaaga gtgtagaaag gcataacaaa aggctctgcc 360
tctctagctn tccagactgt ggcaccaaga ggatatacca tcttcttggg acttgtgctt 420

<210> 28127
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28127

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gccctcccn ttgacctga tacttcgcta ctcngacca tatcagctct gacctcgtga 60
acctcttatg cgacactgag acatgcttgc tttttgtcat cgactacacc cataatgatg 120
agagactagc ccagcccaca gcatatggct ctacagtatc cacgtgatat caccgaatac 180
tatgcctttc tatgggtgat ccacacttga cccaagaag tatccacgag gatggagcgg 240
agtgatccta cctcgttcgg catgaaagag cttcaccact tgttgaccaa tgtcttagtg 300
aaggcgagac gcctacttcg cccgctacta tattgacaga cttgacttac attgtcaaca 360
taagagagaa ctageggccc tcatagttat atctatatat gaacctcgtg tggctcttga 420
taccacgact acacgagact ctattagtgc tctgaatgaa cttgactcat gtgcg 475

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<210> 28128
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 28128

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tgtctcagtg tttatgcgag acggagacca acatgcttgt tcatcatcgc caagtaccaa 60
gaagagttag gtctagccac ggcccacgag catatggtcg cggacgagta tgctcaagta 120
tacgcaaaaa aagaggctag aggaaggggtg atcgactctt tacaccaaga ggcaaccatg 180
tggatggatc ggtttgctct taccttgaac gggagtcaag aacttcccca cttgttatcc 240
aaggccaagg tgatggcgga cacctactcc gccccgaag agattcacgg gcttctcggc 300
tattgtcagc atatgataga cttaatggcc cacataatta gaaatcgta ggaaacttgt 360
atggtctctc agaccttgac tagatacgac tctctttttg aaataaatga gctgggccca 420
tg 422

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<210> 28129
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 28129

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agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg cacaatgcac 120
aacgcatgat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtcggataca 180
atgtccagga catcctgccc gaaaatactg gagttgctga aagcattgaa gctgcatgat 240
ccacgatgtc ggacacgatg tcttgacatc cggcccgaaa atactggaca tataaatctg 300
ttatatcttt aacagattat tgtgcagtta gcaagagatg agatgatcta tctttaggaa 360
cgaattanaa gataattaaa gctcgtatta caaactacaa gagtcgttca gggatgaaag 420
at 422

<210> 28130
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28130

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atgcagctgc agcatgtttg ctttctttct acagcggtat gacttgccgc aaaggatcatg 120
gtgatcttga ctggatatat ggcacgtatg cgtgtacatg catatgcgtg actagacact 180
ttgatgcttg catattcgca tttatgcgcc atgagagcct tgtcatcatt ggtgccttag 240
gaagttggag cgcgtgcctt tgtttggtgg aaatactacg tagtggtacg ggggaaacat 300
tgctagcgac tgtttgctgg agcgggtgga ctatgccttg tctggcacia ggattcctac 360
tgggagacga tctgaagcta ttgtatccac gggccacgtg catgatgaat actgaagaca 420
attgctagcc tatatgtgca tatgaacgtg ccacgtcaag gactgcacag ccagagccgg 480

<210> 28131
<211> 274
<212> DNA
<213> Glycine max

<400> 28131

ctagagcgat atgatctgac gtaaagggtg atggagacta tgaatgggaa taaggacttt 60

ggacctgaca cgcataatgca tgactacgca ctcaatgtga ttcgcgacat actccgcaga 120
tctgcacgat aacagcctta gcatggaccg tgcctaagcg ggggtggagag cttgcctttg 180
attgattgag atccaacaga gtgtattgaa tgagaccttg tgagcgatgt ctacactata 240
cgctgggaca gtgcctgttc tgccccaagc ctta 274

<210> 28132
<211> 261
<212> DNA
<213> Glycine max

<400> 28132

cacgataggt gtcctataga gccctcata cctatgtctt ggactggacc atactttaca 60
cccaccacgg ggtgacgtcc caaagctata taactggccc tagcgacatg gactacttat 120
acatgacttt tttagacagt gatggacctg tacgtgagaa cttctatatt agtacgcaaa 180
ctctataaca ctctgccttt aaggctggtg cacactcact gaattcctaa gaattaacct 240
cataccactg tcacagtctt t 261

<210> 28133
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28133

taagaattgt ctactcagt tcaatgcaca cacgaaaatc actcaatgat atgtatttca 60
agataaacca agtacataac aactcaagtg gaccatacat cacacaaaca acaaggtgag 120
gcccaaaact tatctaactg gttcaagctc aagggaactc tcatacgtga ctttttttgc 180
tagtgtttta cctctatgga aaagtcttat attgaagtgg taagttcaaa acaaaaagtt 240
tcaaaaagtg ttttacacaa aatgaattcc taaaaattaa caacaaacca atgtagagta 300
aaaaatagaa aatcacataa aggtcataaa aaaatatcat caagttgtga gtgaagtgac 360
aggtcacgaa tgcccactgt attacaacaa cccanatgca atgtctagtg catacataca 420
ac 422

<210> 28134

<211> 311
 <212> DNA
 <213> Glycine max

<400> 28134

ttctcaccta cttgatatga taagcaagaa catatctcca caccaccctc tcgtacgcta 60
 gctcatccgc gtgcttttac ttatgagaac tctttgaata tcttactact tagacgtact 120
 ccaacgcggg aacagactga gctaacggcc tgtactactt gtatgaccaa tataacgggt 180
 cttacaagat cgaatgacta gtgtaattt aacatatact tggggaccgc gacttggcgc 240
 atgggctcag agactaccct gatgttcatg acagtcctag ggcgcttttg agcagatctt 300
 acctactcct t 311

<210> 28135
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28135

tccttgagaa tcttctttga gaagcttcct tgagaaacta gagcttagct acacatacac 60
 ctctaatagc taagctcacc tccttgagat gagaagctag agcttagcta cacacacccc 120
 tctaatagcc aagctcacc ccattgcaaaa atatatgaaa atacaaaaaa ttccctacta 180
 caaagactac tcaaaatgcc ctaaaataca aggctaaaac cctatactac tagaatgacc 240
 aaaatacaag gctcaaaaga aggaaaacct attctaatat ttacaaagac aagtggaccc 300
 aaccttggcc catgggctca gaaactaccc tgagggtcat gagaatctta gggccttctt 360
 cagcagctct aacctacntc ctttggagcc 390

<210> 28136
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 28136

tgcttgtaga ggggtgctta ttggaagatt ggaaagctgg agatggtgag agatgagagt 60
 gcacgaaatt gtagggcgta ggtgggagat gacttgttgt ctgaggtggg tgacacacca 120

<210> 28137
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28137

tccatcagag gagttcctaa naaaggcaga anaatacatt tattatgaaa aaaattttaga 60
 agttggaaaa ctaaaaatgg tagaaaatga gagtatacaa aaaatttaaag cataggtgaa 120
 aaatgacaaa ttgtctaagg tggatgacaa accaactcac aaagctaggt caatgtatga 180
 caagtacact cccttgaatg catctcgagg tagaatattg aatgaaatta tgaatgtaga 240
 actgaaggat actagtcttg atgttaagaa ccgaanatgg caaaaaacac cagtaaaaat 300
 attttcacta tcatcgagaa actagacaag ataaacaatt attttcaatt gaaaaatgtt 360
 attgaaagcc tcattcatcg aggaaaactg gatagatatg tctcagatcc taatttgtcc 420
 aaggactatc at 432

<210> 28138
 <211> 184
 <212> DNA
 <213> Glycine max

<400> 28138

tctgaaatta actcagaaag tgccttgtct tcttcaccat gcttttagctt ctcagccaaa 60
 tagtccttta cagaaacctc attctttgtc tcagttccaa caccaccagt gctagttcca 120
 gtcactttgg acttcaatgg acttcctacc actgcaacct tatcataaac tggagcta 180
 ttct 184

<210> 28139
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28139

ntgggctatg ctcttcggga catatcgagc tctgagctga tgagcctcta tagttacaac 60
 tgcacatgca tggcacgcta tattcattta tactgtagaa gatagagcag ggcagtatac 120
 anatgcaagt gcatgctcta gctgacctac tgttatttca catgtgactt aaatgtgtat 180

agcgttgcgt acatttcaca catggggcctt gctagatgaa cctacacgct gactccgatg 240
atattgccgt acgcaagata gcacatgtgc gcaccttgga gtatctgacg cctatacata 300
cgactacttg cgagatgcat attgaccatc tacaccctcg tgcgatacat ttcatgcact 360
tttcacgaac ggggtcacat aagcctcatg cgcattcact ggttgtcttg tgcgctgact 420
catcatgtac tacatcgtgt atattctctt tgtgctgtat ctacgatgca tatcatgcaa 480
tactancn 488

<210> 28140
<211> 425
<212> DNA
<213> Glycine max

<400> 28140

tatgcgcata tttccttacg aacgttcgct tgcacaagac tttcttttaa ctaagaaaaa 60
tgcaccata tacaatcaag gcagctccgt tacctagatt attttacatg tacttccaag 120
gtgtatttgt tacttacatc acacacatct ccttggttaa atttacatac atgcatactc 180
aaagcatttt ggggtaccaa aaattgcaca tgtgcacatc ttgggtatttc taatacctat 240
acatacacia acttcatgat gaattattgac tatctacaca ataaagtgtc acatttcatg 300
ctcttttcaa gtttttgcta cctaaagccg catgcaaatt caagtatatt ttcctttgct 360
gactaaaatt gtattaaaag gtatatattc tttttgtaat gtatttctgt acataacatg 420
caaca 425

<210> 28141
<211> 182
<212> DNA
<213> Glycine max

<400> 28141

ctgcaggtta gtatgaatgt gagagagcgt gtgactttga agttcctgcg tgactattga 60
tagaattgcc ttatcccata gtcctattgg acggtattga ctgatgcgga tactataatg 120
cactctcctt gccagatggc cctacatggt gcttaggcat gagttaggat ctatgctatc 180
ca 182

<210> 28142
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 28142

actaagcttg cctacattgg cggcagcctt cttgttccca agtgtttttt tatgaaataa 60
 cttttccacc atgccacact tgtcaacatt taaaaatatt cttaccatct ggggggttgtt 120
 aagtgataat atagtgggtat gggctgcatg tttgtatggt tgtttgtgag tgtgtgttaa 180
 agtgggtaat gagtgaatta tgaaagaaaa aatctatcgg tatgtaatat taaactatat 240
 ttgtagttgt tgctaattta atgcacaatc cttccaagaa ctccaaacat gtttcatatg 300
 caatgagtgg ttgtcttgca tcagtctgtc atgtacctat gttctatggg gttgtaatta 360
 tgcttgacaa aatatatact aatatactat tatttgcctt cttcaatatg tctactc 417

<210> 28143
 <211> 144
 <212> DNA
 <213> Glycine max

<400> 28143

attgtgaagc aaccgaccga ctaaccctca tatatagact ggaccgggac taaacttgct 60
 cgagctccaa aacgggtacag ccttccgacg tagaacgtag gactcaactt ggcccagatc 120
 tcaaacctat ctctagtgac tctt 144

<210> 28144
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 28144

gcgttgccct tgatcaagcg aagaaagggg ggtgatccta ttgtatagca aaataatgat 60
 gaacaagctc ttttagagtc agctttgact aaacttggtg gagctgcaaa aatctacaaa 120
 ctaccgatag aaaacttagt gcttcaactt caatttatat cttcaaactt atctctagag 180
 tctctagtta tcaatccttt tgcgtcttat atgtcttttag gagaaggctt accagatgta 240
 ggctctatct tggacgtatt taagtgtttt cctataccta tattaccata gtgaaactcc 300
 aaatctgact ggagaacaat accaatagta ctgatgggtat gtgtctaact ttgttcctat 360

acctatatatt ctttgaagga gtggcactga ttactttttt at

402

<210> 28145
<211> 420
<212> DNA
<213> Glycine max

<400> 28145

gtggtatgtg aatacacgtg caggcaatgc actctattgt tcttatacgg cgagcgagga 60
agggcctgtt gctatagtgt gcataattac catgctaaca atgttaattg tcaacaccat 120
aatgctcaag atcaagatgt tctacatccc cactaacatt atgctctgat taccagactt 180
ggcatgctca gagcgatcaa gcggcataac atgatgcgca actaatccat gaattgccct 240
atccttctca tgatcagagg gctgttactc acatggactg cctccagtat tagactacct 300
tcagcgtgca cacaactagc ggccttgaca tgtattttaa tgcgactggg gcactacagc 360
tcgctcacat gatctcaaat gaatgttatt tatgagcaac ctaaaatatc agatgacacc 420

<210> 28146
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28146

ntgtgcttgc tcctctggca atcagcctga cccgggtcct ctaagtcgac ctgcaggctg 60
cttgctttct tatttacctc cgattgcttg cttccgagct gatgcacgc gcgacgcata 120
acacaacctt atctgtatat cggcttaaac tgaccagtag tgagcgggtc accttgataa 180
ctctattagt atataccata atagaatata gcacctaagc taatgctatc ggattagtat 240
gaatcattct atcatagatc tgagcgcgtg aaatgactag tataagtga gacacacggc 300
tcttagcctt gatatttaca ggccgcttaa ctgtaagaat gaactcacac tacgtcccta 360
tagttgctga tccctatata tagacgatac tcacatgcca aatatctcac gaggtcacac 420
ttgcatcgac ttttgacgat aacgatttga accgtgtggt gaaccctcta attat 475

<210> 28147
<211> 409
<212> DNA

<213> Glycine max

<400> 28147

gtagattttc cccaactgcc ttcacgtgct aagcttgatt ctttattacc cacgtattct 60
tgcttccgtg ctgatgcac aagctctgca aatcacaacc aaaactatat aattcctaaa 120
ttttattcat agtgaactaa gaactaagaa acattgtaat acttaataac aaggcccaaa 180
ctaagcatca gtttaggaac atttaagatg aagtgttggtg tgaaaataat gataacgtaa 240
tgactcacia cacttattat tgggtattttc aattgcttaa ctttaagaat caactcacac 300
tactccacta gaagtgatga gtcctatata tagatgatac atgagatgca aaatatctta 360
agatgccata tatccatctg ccttcactcc ttacaatat ttaacatgt 409

<210> 28148

<211> 236

<212> DNA

<213> Glycine max

<400> 28148

ttacagctat ggtcttattt atatcttctt gagtgggctc ctatcctatg actatactag 60
agaaatatac ctttactatt aaacaaggaa gacatcccg cttatgtctaa gcctacaacg 120
actatggatt cgacactgtc actgaacctt actttagggtc accacactgc tggatcgga 180
aagcaaaact tctccagaca agaaacctac tggggatatg cacagcttct cgaaac 236

<210> 28149

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28149

tacctcanac ccaataacaa caatggcagt gacactgttt ttctaacgta cctcatgtga 60
ccacgacact ggcagcagaa accaaaaaac taacaggaag caaaatcaca aaaatctagt 120
gactaattaa gagtttccag tgaaaaaacc tatcgaatga ctaattaaga gaaaaatata 180
ctgactatta gacaatgaag acaccaatct tacctcgaac ccaacaacga caatggcaac 240
gacactagca gtgaaacgta ctttatgtca ccacaacact ggcagcaaaa accaaaacaa 300
caaaaaccaa aaaacctact tgggttaacc acgggttctc gaaacaaaca caggtacacg 360

aaacgtacct aggtaagttg cagatggaca accaaaaggc gagtttcacg gtcttcagcg 420
caatgg 426

<210> 28150
<211> 157
<212> DNA
<213> Glycine max

<400> 28150

cttgctgcaa aagactgttt atgagactcc caataatcta cttgatggcc tcccttgacg 60
gccgttccac cttgtgaccg tctgtagacc tcttcacatt ttgttttacc cgaaatagcc 120
agttccatcc aactgcctgt attatgactg actatctc 157

<210> 28151
<211> 424
<212> DNA
<213> Glycine max

<400> 28151

tggctaaggc tagactgcaa tattcagcct ctgtactgga ccttgcaaca acagactgtt 60
tctttgacca ccaagaaact aaatttgagc caaaaatgat ggctgcacca gaagttgacc 120
ttctgttgtc atcatcacag taagcattaa ctgtaaaggg aggtccagta gaaggaggga 180
gaatcttcca accaaagttg atggtaccag ctagatacct gagaattcgt tttactgctg 240
cccaatgctg ctcagttgga tctgacatgt actggcagac tttgttaaca gtgaaactga 300
tttcaggctg agtgatggtt gcatactgca aggctccac aataaacctg tctagagtgg 360
ggtcaggcaa aggctcatc cctgacttag ttaacttgaa gcctcaacca ttggagaaga 420
aata 424

<210> 28152
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28152

nnncctgtcc ttgctctctg gctaggcatt caccttgacc tcgtgtgcta agcagggaca 60

tgcaggcctg cttactttgt ttcgttgacc aacctaagga ccttgggtgat gtgccgcgcc 120
 ggacatggga ccttgtggac tattgggggg cgctgtcgct cgaaccactc ttgcccactc 180
 ctgactctgc ccgtgctttg tcgaacactg gagatctttg acggtcctat gcctgctagc 240
 tcctgtcctt ctccaagatc aaacatcatc tcaaggggtcc gaccccggtg tgggggcatg 300
 tcttgtattg atctcgatgt gtatcgcgaa tttggactct ggcaactcaa cccagtggt 360
 gttgctacag aaccacgtct gtctgattgg catcatataa tagaggagag actgtggagc 420
 atgaggactc accgggggtgc gaccacatta gcgggcttaa tacttgaggc agg 473

<210> 28153
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28153

tgatgtgaga aagcgtggaa gagtcagtct tcctactttt ttttgttgac cacagagtgg 60
 tacctggaga tatgtcgcgg gggtaagag accttgagga cgtcagggtg ggtgctattg 120
 cccaaaacca agcttgacca atcccgacc aaccgggga tagttagtta gtgagaacct 180
 gtgacgtacc taatcaagcg agctcctggc agtcaaccga tcaaacaaca taaaccacta 240
 agccaggaac cttgtgcggt ggctggccag ctatggatct tgagtgggat ctggaatctg 300
 gcctctggta atcaattacc aatgggtgtgt aatcgatnac agggcttaca aatggagaca 360
 gaaagttaaa atggcctctg gtaattgatt actaacggtg tgtatcgatt agcgggctta 420
 aa 422

<210> 28154
 <211> 313
 <212> DNA
 <213> Glycine max
 <400> 28154

tttatactgc atgagaattg tcattttccg aatgatggac cagttgacac tgtgccctta 60
 tatttgtgga atttctgac caattcctgc cttaacttta aaatatgaga tgatacatat 120
 ctteactggt gttatccaga cgcattgata ttcaatagta ttactgccac atggctcagc 180
 actcaacaag agctgtatga ttatactcta tcgcagacgt atcatgagat gtaagctaata 240

taatggggca ttactgcacg ctataccaac attggattca cacatacgca taacagagcc 300
gctcacacta ctt 313

<210> 28155
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28155

tggaaataaat tcttgtgatg gccatttgaa caattatatt ttccagcata atactntatt 60
caccaataga atagtcatta aaagtatgat ggaccaattg acagcggacc cagtcaaattg 120
tggaaataact tatccaatac ctgccataac tttaaaataa aaatatatac agatcatcac 180
tgttgttctc ccaaaccat gcatttccaa ttgcaaaaca accacatggc tcgggttcaa 240
caggagctgc atcattatac acaatcacag acatcacatc accaagaagc aaaatcattg 300
ttcaaaacaa gcacatata cgaacatcaa atccaacaca tatgcataaa aataacgcta 360
aaactacttg ccctagattt tgcataaaca caaatgaacg gcctcaatca catcttcagc 420
a 421

<210> 28156
<211> 329
<212> DNA
<213> Glycine max

<400> 28156

gcagctgtgg ctgcactttt tgtaagagag gcagaccttg gatgggttat gacgactgag 60
ttgtggccaa tctgttatag agcttcttca tgagtattat tatcattgac aaagacctga 120
ctaagatggg accgttttca gatttatect tgtaaaggaa acatggacta ggatgacacc 180
tttagacact gcctgtctta ttttgtggat gtattattgt gaatcatctc taagccctat 240
ataggaaaat agaatgcctt ctgtcttgct cttttctttt gggatactga gtgtagaact 300
tactagaagt ccatatgata ttgatggac 329

<210> 28157
<211> 402
<212> DNA

<213> Glycine max

<400> 28157

ggacaagccg gcttgtttaa ataataataa tatcaataat aataatcatt attatctata 60
ccatttttat ggaattatga atgacatgat gaagtggcat aaagtgttta gagagttcac 120
ttgcatgtga aaaaatttta aaaagaaaaa gactcaagtt aaaagaataa tgcaaccagg 180
ttaatacttc taaagaaaag aatgttttgt caagacattt ttagacaatt taaatatttt 240
tatttggttg tattagtata aatcatctct aatccatata ttttttaata ttatgctctc 300
tttcttttca ttttcttttg atatactctg cgtttaaato acttgaattc aatatgattt 360
tgtttaacaa ttatcttttg atttgtacat tacttataca ag 402

<210> 28158

<211> 261

<212> DNA

<213> Glycine max

<400> 28158

atctttttct acttcactct ctacctagga tgaacgtttc tttgcgaagg tgtctccaca 60
cttgacaata ttgatcctga cgagaggcgg gcatgactgc gtgagctaca cactgctttg 120
ctagtctaaa cagcacctga atagggtccg ggcttattta cgcttccac accataccta 180
cctcggacaa gagacatggc tcttctccc gctgatatct gcagctgctt gagagcggta 240
acttcatgac cctattattt a 261

<210> 28159

<211> 430

<212> DNA

<213> Glycine max

<400> 28159

ctttggtttg aggtctttct tctgtattat ctagaaacat tttctgataa gcatattcta 60
caaaacacac tagcaaggct agacattcct taccgggtggc atttccagac ttgaaaattt 120
tcacctgat gtgatccagt cttggctatg tgatctacac attgatttcc ttgtctcaag 180
agtattccaa aggttcccc ccttaatagc caataccaga tcatttctcc tttggtcttg 240
agacatggtc cattctcaat tttctattac aagtaaattg agagtggtaa cataatgaac 300

ctaatagcag tgataaaatg actccttttag aaaatgacaa actccaagta tgtttgtccc 360
catgtttccc cgatgtgcaa aattatgaaa ttattttcac ctaccattgt tctctttaca 420
attaatgtct 430

<210> 28160
<211> 262
<212> DNA
<213> Glycine max

<400> 28160

tcacgactgg atactatgat accttcacag cgtgtactat ctattgtaac aacatatagt 60
tcatcaatat aggtgtcact caaactctca tatgctagca cttttgggcg ctcgctcaga 120
gacactcgcg ctcttcgttg tacatgccct gcacccgccca cacatctgta gaacgagcct 180
acctatcaac tagaagacat tcgtggcaag ctttgacttt tctaactctc tctttaaaga 240
tagaaattat tggctcttatt gc 262

<210> 28161
<211> 427
<212> DNA
<213> Glycine max

<400> 28161

tcttttggac cttgaacagg caactaactc ctctttcatt accatgccat gtgctcgga 60
ctgggtccctt tcttcccttc gcaacttgag ttactattg ctaccccata gagctccgag 120
aaatttggtc cgccataact cttccttgcg agcctcttg gtctcttggt caagggctct 180
tgcggttaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
caacttgaac ttctccttgg caagttttgc ctttctaact tcgcttttga gagcttgga 300
ttctttgtct tcttccggtg cttcaaaatt ctctttgctg acgactttta acttggcgag 360
ccaatctaaa cctcgatatat gaactttcag ccattcgtgg taccaccat gatgccatta 420
cgaatgc 427

<210> 28162
<211> 121
<212> DNA
<213> Glycine max

<400> 28162

gagcctgcta gagccgatct agaggacttg caggcttcga gagctcgatt gcgccatata 60
gagagccgga cgtcaacacg gtgatcgctg ttttactgcg gaaagagtga tacaatcatg 120
a 121

<210> 28163

<211> 281

<212> DNA

<213> Glycine max

<400> 28163

acttataaag aaggcggacg catcaaaaca cttatctgag gagagcacct atcacgacca 60
ggcgagctcg gggggccaccg cactctccca tcaatggtga agaatgccgt aatgtgcggc 120
tgtcgtgcca tcgtcacatc cctgtgaccg cgtgtttgcc tttttatctt tgaataagag 180
gagagggagg aagagaatca gagtcgctac gctgacgcac tgccatcatg ctacgcgggt 240
gactctgcga acaataggag acattcggaa acgggggtgaa g 281

<210> 28164

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28164

taacacctat cgccacaagt tccatgaggt tttggaaaga ttttatcgaa taacacaaaa 60
agcggaaaag ggggtgaact tataaaaaag ggggatgcat cagaaaactt cctgaggaag 120
ccaccagttc gcctaggtga gctgggtggc atgcacctcc acccaatttg ttgaaaacgg 180
gtatctaggg cttccgtaac attttcgtaa ccctgggaaa gcatatttca cttaagatta 240
atgaagagga agagaaagag gaggaaaatc aaggtcgata cacttccgca atgcttccgt 300
aatagggggg gaacttatca aattaagggtg tacaatagga agcttcctga ggaagccacc 360
aactcgtcgg ggcgagctga gctctcctgn gcgagctggg cggcaaatcc tccccatttt 420
ggcta 425

<210> 28165

<211> 481

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28165

ttgtgccata cttctacnga cgatatcagc tctgacctcg ggagcctcta cacataatgc 60
tgcggtgctg cgagcttggt gagatggatg gacacacgcg gtcgatagga acaaggattg 120
ggctctatgct tgattacttt atctcaccga aggcccgaaa ctgttgacat gcgcactatg 180
ggaggactcg ggatctagct agtctacttg caatattacc tcgactgtat ctacgacgaa 240
ctgtgagggc ggcacactag accgactatc tcctactgac taatcgtagt agaacgatac 300
ctactagtct aacatcatga cgaccaactg tctcttgaac atatgacgag ccactcatga 360
taccttgctg acatcccggt gtgcgctatc gtcaaaggct aagctctgtc tattgaagat 420
attctgcagc ttagtgcaga tcgtgagaca ctgtgaagta ctctgctagc gagctacgag 480
g 481

<210> 28166
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28166

tgggtgatgt tgcgcatact gatgggtacc atgaggtgtc tgcgnggggt tgacccatgc 60
gggcgttgaa gagacagcat gggatatctc ttcttctctt tttgcccccg ttgtcccgat 120
tcttttggca ttgcactcg tggaggaaac gtaatcgaac tttctctctt tcaatcctac 180
ctcgattctt tccccggcga aactaggctc cgccaagctg gacggcatgt aacctactag 240
cttctcatag tagaactcg gcaacgtgtc taccatcata gtgatcatct ctctctcgac 300
catgggagga gccacttggt ctgccaggct tctccaccgc tgtgcgtatt ctttaaaggt 360
ttcgccctct ntcttgaaca tattctgcag ctgagtgcga tcgggaccat atcggaatta 420
tact 424

<210> 28167
<211> 193
<212> DNA
<213> Glycine max

<400> 28167

ggcggggcgat agggctctcc aagtactcca cattcacctg ttacgcatca acccaccttc 60
tgctgcggtc ttactctact tggacacacg tactccaacg tagcccatat actttttcgt 120
ttccacacca gctagctata ttgtcttcgc ccctatctgc gcatgactac ttgtgtgatt 180
acaacacctc ttt 193

<210> 28168

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28168

tgtaggatta tggngtacct atcacatgtg gtactttggt gcggtcgggc gatggtgcac 60
aacaagtttt ccacattcac aaatcgcgca taaaccacc atccccgtt gcccacctcc 120
aactgagctc acgtactccc acgtagccca tattctcatt tctctgaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcca agtaattcaa cattcaaaca acacaaacca 240
tcacagccaa tataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
caacttttct cacttaaaga cccagtaac aattccttcg ttccaattcg ttaaccgttg 360
gatcgactcc aaaattttac tggacgtctc tagtacataa gctacattt gaacgttggg 420
atctac 426

<210> 28169

<211> 111

<212> DNA

<213> Glycine max

<400> 28169

tgcttactgt cgtcgacgag tacgctataa gacctacggc ttgtcgatgt cggcgatcat 60
gaacattgtg ttgattgtag cccaaatata cgccgattta taagctggta g 111

<210> 28170

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 28170

tgtctcagcg tttatgcgag acagagacca acatgttata tatcatcgcc aagtaccaag 60
aagagttagg tctagccacg gccacgagc ataaaatcgc ggatgagtat gcccaagtat 120
acgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240
aagccaaggc aatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tggctctctca gaccttgact agatatgact ntccttttga aataaaagag ttgggtcccat 420

<210> 28171
<211> 220
<212> DNA
<213> Glycine max

<400> 28171
acctcggctg tatcatagga ctccacatcc tttgcgggca gtcctcaatg gatagaatga 60
tacctccctt ccttatatcg tcacccttgc gctttcaaac cacaattccg gatgaggcag 120
ctctgcccag aattatcgcg cggccattac ttccatttta cgcaactcaa ctactgattg 180
ttgaggccta gaagaatgtc acaacgatac ctttcacctc 220

<210> 28172
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28172

tctatataag ctgaaccatt ttatcaataa acacatgttg ttttntattc agaaaattag 60
agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accttggtcg tatcaaaaga ctttcacaac ctttgtgtgt tgcctcgcgt ggaaagagtg 180
attcttcctt tcctttcact atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
cctctgcccga gaattatctc gtggccataa cttccatttt acgcactcaa attaagtgat 300
tcttgagcct aaattgaatt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360

ttggagccct gttgcttcag ttattgccat ttctatatatt ctgccagcca ccaacttaacc 420
t 421

<210> 28173
<211> 206
<212> DNA
<213> Glycine max

<400> 28173

tgctttttat tattataaga aaagtaaaca tcgctgatct atgctggctt aaggaggtcc 60
ccaagccata attattctga tgtaaaccct atagctgcag acagagaatg aaatcttcac 120
tattatttat agacaaaaaa cttatgggtt catatatcat aattactcag tatgttgctc 180
taatattaat atgcccttat gatgtg 206

<210> 28174
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28174

tgtcactgag gtgttgaatg atatttgatt ctattggttt tattcttcta aaataaataa 60
aattcacagt ttttaataaaa cataatgtta tctttatgcc ggtattaatt ttttttttac 120
cttttatcac ctgaaatatt ttgttttttt tatgaatatt tggagactaa taatttattg 180
atagatttat ttttaatttct ttgtttgttc tcttaaaaaat aaaataccct agtcaagtga 240
gagagagtag ataaggatga atcaagtga cttcaagtgt gagcaaagga gctatcacat 300
aaaatagttt taaaattatt agaaattctt gtatataaga gaattgcatt agatgtgcta 360
tgcaagtaat caacatgtgt tntgtcttta taaatctcta cacatatatc attantttac 420
t 421

<210> 28175
<211> 249
<212> DNA
<213> Glycine max

<400> 28175

attgctacac cttttctctt cttacgatcg tcaaagctcc taatggcccg gatgtcaacg 60

caggcctctc aaaggcggtta cctgatatac ccattcatga tctcgtagag gaaaccgaac 120
 cgcggttcggc aagtacctca acacgacatc atctccctga acatgggtggc agacacgctc 180
 catccttttag tgcttttcata ctggcccagag atatattgtgc actgtactta tgatattcat 240
 gtggagact 249

<210> 28176
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 28176

tcatccaact taagcatgga aagaaggcat tatattctca tacacataag atttctaaaa 60
 acttttcacc cttatcgacg attgtaaaaa gcttttaatg gaagtcatga aaatgaaggc 120
 ccctcagaag cattaactgg aaaccaagtt catgatcgcg taaaggaaat tgtaaccgtg 180
 tttggcaagt ccagaagaa gacatcatct cccaacaaca tgtggaagaa atgctcaata 240
 tttttgatct tccatactgg tctgatctat atgtgcaactg tctagatggt atgcatgtgg 300
 agaaaaatgt gtgtgatagt ttaattggta ctcttcttaa cattaaaggg aagacaaagg 360
 atgggtttgaa atttcgtcaa gacttggttg acatgggaat acgagacagt tgcattccat 420
 at 422

<210> 28177
 <211> 104
 <212> DNA
 <213> Glycine max

<400> 28177

gattcccaga tgtgctccat atgtccaacc gacgcctatt accacactgt gatgggtacc 60
 ccgatattct accggcttga taagatgata tgtcgtttgg tgaa 104

<210> 28178
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28178

cnggaggatt gatggggacc cggtgttgat agaaatgagg atatgggcta cgtgggagga 60
 cgtgagctca gttggagggtg ggcaacaggg gatggtgggt ttatgcacgc tttgtggatg 120
 tggaaaactt gttgtgcacc atcgcccgac cgccacctag taccacatgt gatgggtacc 180
 ccataatcct acaagcttga gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt 240
 gttgaccaca gagtgggtacc tggagatatg tcgcgggggt caggagacct tggtgacgtc 300
 acgtgggggtg ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt 360
 cggtcagtga gaacctgtga tgtacctaag caggcgagct ctggcagtca ac 412

<210> 28179
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 28179
 ctgcagcatg ctgcttttga tggatgaatct agttgcttat gttaggaatg cgacgacctg 60
 tgccttttga gcacgactta tatattgagt gggcaacttc actatctgca ttttgttctt 120
 gttctgcgat atgacacctt gagtatgcta tacttcagag atagacgttc tccactatct 180
 agagatatga tctttgtaga ttctatagat gatgactccc ctattcatga gatgacttct 240
 ggagaacttc tcaaagtcac actcgaattg attggtgata cccaagacta tctcaatact 300
 gtgtgttgaa taagccgctt tcactatctt cttgatcacc atagt 345

<210> 28180
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28180

ttagaagaat caaccatggt tatacaataa atctcgacat agttggtaat agctagttcc 60
 ttatgttagg aatcccacat cctgtgcctt tggggcacia cttatatatt tattgggtaa 120
 cttcacttaa tgccaattgt ttttaagctg aaatctaaca cettaagtat gctaacaaga 180
 gtgtttgaca tcccacacta actagtata tgatcaaagt agtatatata agtgaagaca 240
 cccctcatca taagttagct tttggggatt aagtttagact catacccaaa ttcaaagggtg 300
 ataccaaagt ctattntaag acaatgtggt gaatatcccg catcaactag taatatgatc 360

aaaatagtgt gatataagtg ggggtaccct aaatctatga gctagctntt tggga 415

<210> 28181
<211> 276
<212> DNA
<213> Glycine max

<400> 28181

gtggggtgac accggataac tatggccgtg ctacgtcgct gctggtggtt attgctggtg 60
ttaaccacgc ttggacattg gagaaggatt gccagaagat tgataaccat gtgtttgcta 120
taaccgctgc acgacaaaat aaggcttgca ttacgtcctt gctggtgctc tctggaaaag 180
atgcattcct cacacgcctc atgacatata gtagatcgaa cgggcctata atggtccttt 240
gccctatgct cgtccagatc caagcttgag aagatc 276

<210> 28182
<211> 427
<212> DNA
<213> Glycine max

<400> 28182

tatccaaaca aggcattagt tctcttataa gtaagtctat cctaacaagg tctaacgcat 60
gcaaagagaa aggttatcaa ctgacaccaa ttaactataa acgtgctaca tcaagggtgat 120
ttctaaatac agaacttaac cccgcttaaa agattaagaa taaagattaa ccagtagttt 180
ggttaaccat gtattttacaa caacccccgc cccccccccc cccccgggca ttttgaccta 240
actgggttac tttcacaaac ttattcccaa tataggtctc ttcttaaact atttccaagc 300
tgggtctggt attctacgta accctagcct atcccgccag catgcatggc ggtatcactg 360
gcgttgcgac acgtggacga tgtcgccagg atgaatggcg agacagctgc acttgggatgc 420
cgccagt 427

<210> 28183
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28183

cacccccccc accccaaata aacgaataga atttgatcaa taataacaaa anacaaaaag 60
 cggagtaatt gtgacctcga aacactcgaa nacanaacac caagccagca ccaacacgcg 120
 acaaaaagac aacgcaaagg acattatatt tatgtcagaa agctaacacc taactcgtaa 180
 ggaggaagac cttgaccacc aaactaatgc ccatactatc tttacacact ccctcccaca 240
 ctacgctatc gccctctctc catccccacc atcagcgtag gaatctaacg aacaacgaag 300
 aacgccaact aatagcaccg acaaaaaaaaa catagaagca accacagggc caatccacac 360
 caaacaggag agaaaccaag ctaactaatc aataaatgta ggccgaaacc aagaactgca 420
 caccatataa ggacaacata aaattcacac cgcaaactca ataaagaccc ttgccgcaga 480
 caaataccag agtgtaaaac aacaaccaac aaatcgataa aa 522

<210> 28184
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28184

aggacgaanc ctgangcctg gactcntcgc gaccaatcga gcactctgacc ctgcgagcct 60
 gtggagtcta tgtgcaggca tgcaagcttt tatccgttgt tctaactaac cgtaaaacgt 120
 gtgagcgggt gggagagata cttcttgccc tctagagcct ggaaatcaat gaagggatga 180
 tatcggcttt agatgagaac acggttaatg atttacgtac aggaaaccga actcgcgtagc 240
 gtatatgtgc cttaacaaga cgtccagata ccatgaactg ggggcagaca cgttccatat 300
 cttagagaag ccctacgcgg cccgagagat atgagcactg gtcatacggtt attcatgatg 360
 ggacgaaagt acttgatcac caatgcgctg ctgttggttag aacaatcagt ataagctaag 420
 acctcttaag accgcagatg gaggcggatg aacggagatg tgaccaatgt ctggcatttc 480
 tgttactgtg tg 492

<210> 28185
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 28185

actaagcttg gtgatgttgc gcgtactgat gggaaccatg aggtgtttctt tgaggtctga 60

cccacgcgga tagggaagag acggcatggg catctacttc tttcctttat gcccatgtag 120
cccagagtct tttggcattc acgtttgtgg aggaaacgta atcaaacttt cctctcttca 180
atccaacctg gaatctttcc ccggcgaacg ccagatccag aaagctggac ggtatgtaac 240
ccactagctt ataataatat aacactggcc gagtgtctac catcatgggtg atcataactc 300
tctcaaccat gggaggagct acatgtgccg acaaatccct ccatcgctgc gcatattatt 360
taaaggtttg accctcttac ttgaacatat tct 393

<210> 28186
<211> 185
<212> DNA
<213> Glycine max

<400> 28186

ataccctatc agttaggtgc atgcactagc tacaacatgc caccatttag agctttgctt 60
gttggctctgc ggaaaaagac cagttcacgt gccctgtagc gactaccaca tgcagagact 120
attggcaaga gtgtatgcta cataacttac tgtttgcgtg attccagatt ggatgacaat 180
gccct 185

<210> 28187
<211> 418
<212> DNA
<213> Glycine max

<400> 28187

ttgaggggtgc gtagcccacc atcttttcat agtagatgat tttataatgt gtctaccatc 60
acgatcatcg tctccctttc catcattggg ggtaccacct gtgccgccag atccctccac 120
cttttgggcy tgttctttga aagatccgtc cccctttttg caaatgttct atagttgcat 180
cctatccgga accatatcaa aattgtactg atactgccta acaaaggcaa ccattatgtc 240
cttccaagaa tggactcggg aagaatccaa gttagtgtac caggtaacag ctaccccagt 300
aagactttct tggaaggaat gtatcagcaa ttcctcatct tttgcgtatt ccccatctt 360
ctgacaatac atcttttagat ggttcttgcy acaagtagta cccttgactt gtcaaagt 418

<210> 28188
<211> 473

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28188

ttgcctgggc ttgctcctct ggccatcagc ctgaccogtg atactcatga gtcaacagac 60
tgcattgttat catgtacgat ctatattacc cataactaata tgatctggga ggggtataga 120
ggtgatacac atgtaaacta tgtcactttg acacttcaaa cgttaaaata cttccccac 180
ataggcacgt tgactttgag acctctcact aacacgtagc ccataagatg aatcctctca 240
acacacgtgc ttctatctac ccatgctagg ttccctctta taccoaagat tcaatttgct 300
ctaccatgaa actatacgat gccaaagaaa caggcgcta tgcagaaaaa gatctgcccg 360
aatgacatac acagatcaga actttcatta ctcatatagc gcagaaagaa tatggtcgct 420
acgatgtcga tatccgtttg aacgacttga atactttatc gtaagcacgc aan 473

<210> 28189
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28189

tgtatttaaa aatgtgttaa agatactctn aattaatatt tgaattttca ttcctttatt 60
aatatatatg tgaggggtag aggggtgtcac acaaataaac tctcccactt ccacaaatca 120
aacattaacg taccatcccc agttaccac cttcaatttg agctcaogca ctcccacgta 180
gcccttatcc tcgttcctct caacaccggg tcccatcaa cccctccaag cttccacaat 240
atccaaaaaa ttaaattcca aataccatga aactatccta aaccaagaaa acagggcaga 300
ggcagaaaac tctgccccaa acacattcac atatcagaac tttccttact catatatccc 360
agaaacattt acttcgttcc gattcggtta ccattcgacc gacttgaaat ttact 416

<210> 28190
<211> 237
<212> DNA
<213> Glycine max

<400> 28190

cccatctcca tgattatgat tattacctga cgtttcgaac aaactaattc gacgttacat 60

gacaactcta atggccgctt gagtacctca cccactcaag aggatcacac aataatggct 120
 attctctaata gaaacactct tgccttttac cactcttatt caccttgata tattatgcga 180
 ttcaagagat tatggccaca tcgaagaaca attcacctat gtgtgtcagg taacgct 237

<210> 28191
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 28191

tatagaaact aagctttgag cacattaaac gacataactt tttactctgt cttccgattg 60
 agtcccgtaa tatatcgaga cgctcgtgat tgaaaacaga agctctgagc aaattcaaac 120
 gacaataact tttgactcaa atgtccgctt gtgtcccgta gtacatcaag atgctcgtaa 180
 ttgaaaaggg aagctctaag aaaatcaaac gacaataact tataactagg atgccggata 240
 gagcccctaa atatatttag acgctcacia ttgaatacag aagctcttac gaaattcaaa 300
 cgacaattag ttctgactcg gatgtccgaa tgtgtaccgt aatatatcga gactctcgta 360
 aatgagaaga gaagctctgc ggaaattcaa acgacaataa ctcttgactc t 411

<210> 28192
 <211> 93
 <212> DNA
 <213> Glycine max

<400> 28192

cagacatcga gacgaagtta aatcaaagat aataactaag acttacttat atgatatgta 60
 taactaaagc ctaataccgg ctataaaaat aat 93

<210> 28193
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 28193

aatctcacta cactgtgagg cctgcctgag acgatccctg cgagaccatg agcgttcgac 60
 gctccatatt ctaatgcata ggccatccac cttgacaaga tgtgtctaga tcactactac 120
 ccagcgctat ctattatcct cttcacaacc ctaggactcg atcctggaga atctggtaag 180

tggctactgc tgtcatgact actcatagtg ccccgctttt caaggctaaa gttctatacg 240
tctgatagtg gcacaaatac ctggccacag atgatgacga acctattcta atatcgacta 300
atagatgcag catcatactg agcgcaaggc ctctaaatca tcttcacgct catgagagcc 360
tgtgtgcctt acctagg 377

<210> 28194
<211> 380
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28194

gagaaaaatnt ctttgnnaag atagagctta tctattcaca cccatctaaa aactaagcgc 60
acctncttga gaagcttnct tgaaaagatt nntaaagaag ctagagctta gctactnata 120
cctttttaat agctaagctc acctncttga gatgagaagc tagaacttat ctacacaccc 180
cctataatag ctaagctcac ccccatgaca aaatacatga aaatacaaat agacaatgcc 240
tactatagag actactctca atgcctcgaa atacaaggct aaaatcctat actactagaa 300
tggccaaaat acaaggcgcc gacgaaggag acacctattc taatatttac aaagatatgc 360
gggctcatac ttagcccatg 380

<210> 28195
<211> 359
<212> DNA
<213> Glycine max
<400> 28195

tgctgctagg tttggcagtg tagatagtgt ctataataca gatgaggctc ttgaccactg 60
ttattttctt ctttgagcat gggaatgcct ttattgactg cgcattgccg gaattatgat 120
gtttgtactc cctatgaagg gaacacaatc tcataacatg agagcataca tgtagttgac 180
tcaatcaact gtgcttcaac cactgagatc tggatgtaat agagtgatca tctattttta 240
gcaatttcac agactttctt gtgactataa aaattaatct taatagggtg agcatgtgtg 300
aatagctcat agctactact attgaacata tatatagtaa taataactta tgcttgtgt 359

<210> 28196

<211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28196

tgaatcatgt gaaaataaat caatcattct gtatatgtat cacaaattat atatattgat 60
 aagaattaca aattaaaatc agcaaactct taatttcggt taattaatat gtgaaaacat 120
 ttatgagcta agcttaacgt gaattaatct ttttttaatc catataaatt gaacacaata 180
 ccataaattt ataacattca tatattctac tcaatcaact gaactaaaac cactgataac 240
 taattttaat aaaatgatca tttattttta ccaatttcac agaaaaactt ttgactaaga 300
 aaatttaact taattgggtg agcatgtgtg aattgctata nactactagt tatgaacata 360
 aatatgttta taataactta tgcatgtgtg tccaatgtat ctctgtataa ac 412

<210> 28197
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 28197

ctgatagaga gggagaatat cggggattct cgactcctat atcacaccct tcaatgggaa 60
 ctccaatcta tacgtgcgga cagattaatc gcgaatcatg agacacggac tgtgactgat 120
 tactcgcgat tataagagac gatagcatga gctctaacga acctgatacc ccctatacca 180
 caatcacgaa ctctgatctt ttacccttta gttgaacgcg caagctgaat ctgtagtaat 240
 aagaggggga tcatacacga tatggtgata acacacacca atattggatc ttccctatat 300
 ctttctct 308

<210> 28198
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 28198

taactgaatt atatcattga ccactaagac tcttacatta taagggacac aattcctgaa 60
 agagtgggag aatttcaggg attctcgaat catatatcac acccgaaaat gggaactcca 120
 atttattttc cgaaggattt tggcattcat tgacagggac tgggacttag tctcaggat 180

tttttgtgat gaaggttga attttaacga cccttatacc ccctattcca cagtctcggt 240
 ctcttatctt ttacccttta gtttaacgcg caaacatttt ctctataaat aagaggggggt 300
 acatacacat tagtttaatt tcccacacca atattttctc ttcctctttt ctttctctca 360
 aatagaaggt gcttagtagt atggaagacc tggattggtg ttcgtttacc ac 412

<210> 28199
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 28199

ctggacgtat ctgcagtat ttacattgat gagcctatcc agccctgggtg tcctgacttt 60
 gattcgaata tgactaccgg ccatgatcgc attaccgtga tctctccaca ttctgatcga 120
 tcttcgcacc gtatgacatg ccttgcgaaac tacttggagg cgctttgcgt tgatgtgcac 180
 taacacgccg tgtgacgaat ggcgagagag ctatcgtggg acggactcga tgtacggtgt 240
 atatcggtcg aatgatgagc atgacgagag aattgttgat actaccccg cgtcccggtta 300
 agggaacatt tgggaattcct tcgcatgaag atcgaatcct gattctttct tgcttctagc 360
 gagggg 366

<210> 28200
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28200

ntgccttttag ggcttgtacc tcatcacttt ctccgaagc tttaacctca ttgtctctca 60
 cagtatttag atttgggagc caatccaatc cttgtgtccg gactctcagc cacttatgat 120
 agccgccgat gatcccatca ctgcttcccc taagctctct gttctttctt cacaccgcat 180
 cacatgcctt gcaaaactcct tggagtacct ttgcattggg gtcaactaaa ccccggtgtaa 240
 tgaaaggcgt gatgctttcg tcaaatggcg ctctctcat ggggtagcca agctgtctta 300
 tggcaaggac aagattataa tttatacaac cccttgttcc cattaaggga acatttggaa 360
 atccttcgca tgaagataga atcctgattc tttcttcctt ctagegagga accaattaac 420

agac

424

<210> 28201
<211> 151
<212> DNA
<213> Glycine max

<400> 28201

agtgtataga ctccggacggt ctaaccata ctaatgatgg tgtcagtcgt actgtggata 60
ctaaccagga cgatgcgcgc tccattccat agactcttgg attgaatcgt atctttatta 120
cactagctat tgtagctcgc aactaccatt g 151

<210> 28202
<211> 424
<212> DNA
<213> Glycine max

<400> 28202

cggctcaacc tgctttataa tctcccgacc caagtctgtt tctttagcat tatatagctt 60
aggttaggcc tgacttatta gtctgtataa acctaaagg cctatttcat agtaagtttt 120
aaatagggtg atcagtctat cctaaacaga tcaattggct tacaacgtaa tagactatac 180
taaacaagtc aataatcagc ttactagtta gcaaacatac gaaaacagat tgcattttat 240
agccattgca accagctcaa gtctgaaaca aaatgcttta gttgataaaa taatgatata 300
atattacatg ttaaataatta aaacgatata atattaccat gttaaataatc aaaatgatat 360
tatttacaaa taagtcagtt cgataagccc aacacgttct cttaaaagtc acaacctgac 420
ctgc 424

<210> 28203
<211> 451
<212> DNA
<213> Glycine max

<400> 28203

ttgggcatgc acttctggcc tatcagcctg acccgggagc tgctagtcgg ctgagatgca 60
gcttttttagg tagctttgca cgacctggca agaagacaag cggagacaga tcgacctttt 120
ggaattctgt tacacgactc acagtgttgg ccacgcaaaa gcgctactcg tgcggccatt 180

catataccag agtctgtgaa ctgtgaggcg agattgcaaa acctatggta gcaggcagac 240
ctaaccagtg ttcctataga tcatgcagcc gaacgacaca tactcaactt gtacctgaac 300
gccctctcct gtgctgcttg cttaataaga ggtggttgac acgcgtgagg ttgactacac 360
gtacctacct taagtcatgc cgacgtcctt gtgcaaataa tcgagagcgt aactgctcgt 420
gccctgtaga tactacactc cacacctgac c 451

<210> 28204
<211> 421
<212> DNA
<213> Glycine max

<400> 28204

gggagaggat gctcaatgga tggaaagaca gaggagata aagagggagg ggggagcacg 60
aaattgaagg aagaaaaagg gagagaagtt gaactttgag ttgtgtctca caagactctc 120
attcatcaaa gttccaacga gtgttacaca tgcttctatt tatagactag gtagcttcct 180
tgagaagctt tcttgagaaa acttccttaa gaagcttctt tgagaaaact tccttgagat 240
gctagagctt agctacacat acccctctca taactaagct cacctccttg agaagcttcc 300
ttaagaagat tccttaagaa gctagagctt agctacacat acctctctaa tagctaagct 360
cacctccttg agatgagaag ctagagctta gctacacacc cccataata gctaagctca 420
c 421

<210> 28205
<211> 267
<212> DNA
<213> Glycine max

<400> 28205

gtgcacgctt gctcagtttt tggcacatga accgtggctc gctgactcat ctcatectcc 60
acatgtgcga actgggccat atgcactggg tcagaatgcg tattgggccc ttacggagct 120
ttaccctttg gactgacctg ttgataatgt aacacacgta accgacgctc agaactatca 180
taggtgacag agctgatcaa tagcgaacaa cgctgactct tgctaagtga tgctgtacct 240
tcctctctcc gacatctttg agacctc 267

<210> 28206

<211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28206

ntaagtgtgc aaacactcca tgtgggtggc gctctatata tctttccgtg gttcatgaag 60
 tgtgtcgcaa tgtctctttt gttctttgaa gcgtatgagc tcacatatat gcacctgcag 120
 agatagcgga attgagccga acatgcataa actgtctgga ttggaagtct acaaaggaaa 180
 aagtgaagct gccagcatga tctagctttg ggtagagagc tgaagaatag tgtaaagtgc 240
 taacccttac taagtcatgc tgtaacagcc tcaactcctc ctatttgggg acccagtaca 300
 gtagtagatt cttcaacaat ctgatagaca cacaacgctt attaagcata aggtaagaag 360
 ttagtgggca tgagaagaac cactgttagc atcgtatatt cctgcttatt attatctgag 420
 att 423

<210> 28207
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28207

ntgggctgac acttcggcgc ttgagctctg acccgagatc cttagagtcg accgtgcggg 60
 catgcaagct tgtatacttt cttaagacgc agacaacact gcatgagtag gaggagtggc 120
 cacacctcgt tgtccggagc gagatcttta ttgtcttaat cctgactagt tgaatgcaac 180
 tgcgtcataa tcttcatgta gacctcgaag cctgaaggcc gcccccgct atataactcaa 240
 cgcggcagac ggttcgatat gttaaaaacc acctaaactca gtaggggtga ttaggctcaa 300
 cgtcggttacg cgtttcacga gatattacgt cgataatgcc tacccttgct gccaggaggag 360
 ctcgcaggta tggcactgct gcagcggaag aactctgtcc tccgctggca gttgcaagag 420
 tgttgcatac ctgcttgcta catgacgaag g 451

<210> 28208
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 28208

ttgacaacga tagcgtatct tgtgcatgac tcacgggggt ccagacacct tcatgactta 60

aattggagag cgtttgccct gactcattgc tatgaacatt aatctagctc tacctcatgc 120

atagatcagt cactcgtaaa cctactgatg actctatcct tatgtatctc ctgcaaacct 180

cttatagctt gtacaaaaca cccaagctt agaaggcatg gatgcaggct ccattgcagc 240

tgatatgcct aggaacttgg ttaatggcct atggctatcc attaccaaag atgggtggct 300

gcttacaagg ctatagaata aagacaggag gctccca 337

<210> 28209

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28209

tgnaaagagg aagtgtanaa gggtgaaatt tcctgctttt attcgttgac cacagagtgg 60

tacttggaga tatgtcgcg gggtcaggag accttgggga cgtctggtgg ggtgctattg 120

cccaaaacca agcttgacca atcccgacct aaccaggca tagtcagtca gtgagaacct 180

gtgatgtacc taagcatgcy agctcctggc agtcaacaga taaaaggaac aaagaccaca 240

aagcaaggaa ggcttgtgtg gtggctggcc agctgtggat cttgtgtgat atatgggtta 300

tggcctctgg taatcgatta ccaaggatgg gtaatcgatt acaaggctta taaatgaaga 360

caggaggcta agatggtctc tggtaatcga ttaccaaggt gtgtatcgat taccatgctt 420

ga 422

<210> 28210

<211> 415

<212> DNA

<213> Glycine max

<400> 28210

tgtatagttc cccaatttat gggtattttt gagtattttt tgtaataaaa tcatgattta 60

tgtttaaagc tgtctctata acattacat tggatttaat gatgaaatct gtgtattttc 120

aagtgaaaaa gagtctaagg tttgaaatgc agaaagtagc agttgggcta cttgcatata 180

catcgtagcg gcgcttagtg cacaagatat ctggccgagc atcagcatca aacctgcgcy 240

ctaagcgcg gatcagtgcg caaagcgccg tatgtgcctt caaccaagct tacttcaaga 300
ctggcgctaa tcccaatttc acttactcgc actaagcacg gtgggtgggtgc taagcgcata 360
gttgctaatt ctgtaccttt tcaaagtcta ttttgagcag aattacgcac acacc 415

<210> 28211
<211> 415
<212> DNA
<213> Glycine max

<400> 28211

tgcatgggtg cgctccgtct ggcccgtgct tatacctgat gagagaagat catcaagttt 60
gagggctgtt accatggcca tgctgatcct tttcttgta aggcaggtag tggagttgcc 120
accttaggac ttcctgattc tcccgggtgc ccaaagctg ccacttttga aacccttaca 180
gccccctaca atgacaccga ggccattgag aaactcttcg aggccaacaa aggagaaatt 240
gccgcagttt tctcgaacc tggtgttgga aacgctgggt tcattgttcc taagcctgat 300
tttcatagtt tcttgcgcaa gatcaccaag gagaacaata cccttcttgt gtttgatgaa 360
gtcatgactg gatttcgctc gtcatatgga ggtgctcaag atattttggc ataac 415

<210> 28212
<211> 260
<212> DNA
<213> Glycine max

<400> 28212

ctatatgagc ctctccatt cctatgccat agtaccctaa tatgccatag acttcgatga 60
ggaaaaatat ccaaggccta ctctctgcac atgtgcatac aggaaccatc actcgaccct 120
tactaaataa tctccaagcg tatcttctac accgagattg gatcgccctgc attactgtga 180
ccctataatc atattcctcc atgatcatat tcttgagaac atgggttcctt gggagagact 240
agtcacactg gtgctattca 260

<210> 28213
<211> 418
<212> DNA
<213> Glycine max

<400> 28213

tgttcttgaa tcattcttctc cttgaagtgg catcttcttt catctttctg tcttctccat 60
 tccgctgccca ttgaaattca agatgcaaag gacttcattg atgaagaaga tccaaggcct 120
 acaagctcca catggagata catcaacttt ttcattgaaac ttttaagagat ttattcaagc 180
 tttccatagc caccaagaat agatcaattg catttctgta actctagata cattttccaa 240
 aatgaactca tcctgttgat gaaattccat ttgagtggtg tcgtaacaat gatgttcttc 300
 atgtcatgtt cattgttttag atcttcatgt ctgcaacatt cttcttttgc tttagctgat 360
 gattatattt tatggctcga attcttctc ttcattctagc gacatgtcga cttcttca 418

<210> 28214
 <211> 197
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28214

ttgtttcccg cgagtcggtt aatgactttt atgatgcctc tcacctcgtg gaaggaccct 60
 aacactgagt cgccaagtat catagctgct ttcattgcat ccgtcggaga agaattggcg 120
 agagtccgan atccagagat ctttgatttg aagattcggg agaataattaa tccaagtttg 180
 cagagacgat ctcaaca 197

<210> 28215
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28215

tcctctcttt ctctcgaatt cttcttcttc cctaagttct ctcggagctc gagtcttctt 60
 ccccgcgagt ccctaaagtt tttttcgcag gcctctcaca tcgtggaggt tccctagccc 120
 tcgaaagcta ggtatcattg gtgctttcat tgagcacgtg gttgaaagta tggcggaagg 180
 tacgagatcc aaagctcttt cgtcggaaaa aatggtggaa ttatttgcca aatttgacgc 240
 aacggctcag acgaagatgg agaccttacc ggaatgctta gctcatctcg aagcanacag 300
 gtataatccg tagcaagtgc aaccggagac gacttcgttt ccggcatcag gttcacacac 360
 agcaccgcat cgaatgaagc tcgatgtgtc gagattcagat ggtctgacgc cact 414

<210> 28216
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 28216

aaaacacatg gtactactac ccaattatta aataaccttc aaccactact aacggaaacc 60
 gtgcccttta agagctacgt gagaaataac tagtagaagc gacatccatc tgagagtgtg 120
 cgatgtatca cttcacgata gaagatgaga tctccttgta gaatgactgg catgataaag 180
 acggagacat acgtgcattc atcgaaacat tgaatctgca gtagctgcgg aactgatcat 240
 tcaagga 247

<210> 28217
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28217

ttagttacta tataataatt ctatacaact tattttatatt atacgagaaa taaaaaatatg 60
 aaatataatg attgacacga tacaagata tgtaaaaacc agtgttcatc cagaaaaaaa 120
 aaaagtggta tatagattca tttattgtgt agtctttttt ttttactaca attaaggcgt 180
 aatcttattg tatagggaaa cagaacttgg tgagggtgata accaaatgag tgtatacttt 240
 gatgacttca tttttgaaaa ttagattatc aatgtagata tacaatacat gaaaaggacg 300
 gagtataggt gtatttatct agacattgaa tctagtgggtg ctgcggangt tatcatt 357

<210> 28218
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 28218

ggacgtggat aggatatacg ctactgtctg cacactatgt ggtttatgcg tctacgccga 60
 ccgccacacg tgactttgtc ctttgggtgt agcatctgac actgttgat atgttgacat 120
 atacgtgca atcatctacc tattgogatg gtatacctct ttacataagt tccccacttg 180

acaacattaa taatctcttc atgacgtatg acgattccat ctggacgaat catccccaca 240
 ttatatggat gaatacttc 259

<210> 28219
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 28219

tgaaggtaaa ccagatgtct aggttaacct ggtaacccat ctggccgtga ataaaaaatc 60
 tgcacctgtc gccagactct gtggtttatg ctctctgcc gaccaccaca caaacctttg 120
 cccttctgtg ctacaatctg aagcaattga atatcttgaa gcttatgctg caaacatcta 180
 caatagacct cctcaacctc aacatcaaaa tcagccacaa cagaacaatt atgacctctc 240
 cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg tgaatccttc 300
 acaacaacag caacaacaac aataacctta ttttcagaat gctgctggcc caagcagacc 360
 atacgttctt ccaccaatct agcaacaaca acaacaacac agccccaaat atagc 415

<210> 28220
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 28220

ctgccttgat ctteggccct cgacttgacc tggggactct gaactgacct atgcatgcaa 60
 gcttctaact ttataattaa gaagcagcgt accatttgat agaccagtgg ctctctactt 120
 tctgattggg gtgcagccca aacacgttat accagacaca ctctatgtat gaaatgtca 180
 atacacatgg ctctcaatt gaactcaaat aattttatct cctctgcttg tgattaaact 240
 atcaagtccc ctgagaggtt cctcacaac tcgcaggcat aactcgogac ctttgcgatc 300
 atatagtatg tgatgtgact acagggttca ctaatgacct aatctagtgc gacattatac 360
 aatcgtagac ctcatgatct atacaccctt gttacatgga cagtccaata cg 412

<210> 28221
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 28221

ccccaggcc tacactccga agagaccgac agggccacac cttcctgaga caggggcaac 60

ccaggaaaca tcagaacaga cagactcgat ggatgaaaag tacaaaacac atggctcctc 120

agaaggactc aaaacaatgc tatctcggcg cgctagagat aaaactcatc agggcccctc 180

agcggttccc atcacaataa tcagcgcgca agaactcgcc acccttaaag gatcatatag 240

acgcgtgagt gccc aaacca tggcccccaa ctgagagcac accacaactc aacgcacaca 300

gataccacaa gtgaaaacac a 321

<210> 28222

<211> 185

<212> DNA

<213> Glycine max

<400> 28222

tgaggtagct ccctgccttc cttactctca gcgtatagag tgactactgg aagagctccg 60

atggcccttg actacgcca tctagtctac ctattcggac ttattacctc tatcattgcc 120

cctatgcgtt acagatctta ttcagatgcg gcgttatgta cttcctatcc gaatttgctc 180

cacaa 185

<210> 28223

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28223

agctnataag tgcgggttcg ggagacaaag gtcaagcgtt ctttatatgc gaagatgata 60

ttccgagtag tttggatttg gtacgacat gctctcctga tttccagctg ggaaattggc 120

gagtggagga acgccccggc atttacgcaa caagcataat gtaaaccctt acgggttttaa 180

aagctctata gttgggccta ggcttttagag ttttcatttt gttaaggctt tttgtctttt 240

gtttttgaat ttataatata aggatctttc ttcactctgt cctgggtctc acccattctc 300

attcatttgc atgtttactt cttttttctga tacggcagat ccgatgacga gtcccccgaa 360

tgtactaata cctgtgaccc gtctatcaac ttcgagcaag aaatgatcat acggaagatg 420

a 421

<210> 28224
 <211> 219
 <212> DNA
 <213> Glycine max

<400> 28224

ctaaacttcc gtaagcgatt taagctgctc ccattccaac actaaccagc tgaggatcaa 60
 gcatcgatca aataactctt gacctacgac gaatgacctt ctctgatcta ctcacacaag 120
 catgatctga acactaccct tgccctgagc ttgtatgctc ttgatcaaag attagttttc 180
 tccgctactt cctaaaacgc ataagcgcg cggatctgga 219

<210> 28225
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28225

tgttaaanac ggaagacaat aaaaccgaaa atgaacgata tgatgacgaa agctaaaaaa 60
 caagacagga attaaaagtc tcggattcga aaacttacct gttgaagaac gaagaacgaa 120
 cgaagaacga atgaagaacg acgaaaaacc ttcacggatt cgctcacaga aacatctcgg 180
 aaacgttacg gaagcacctc ggcttggtt ttcttcacgg aaacaatttt ttcaccctaa 240
 atagctgaaa tgcatagcta ggcggatctg ggatccttac cctttcgctt atttatagga 300
 aaaaggggga ggaggttgtc gccagctcg cccaggcgag ctgcattgct tctctagaa 360
 gcaaccctgg cttcaaaata ctctagaagg cccaaattca aaattcgaaa attgttattt 420

<210> 28226
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 28226

agcgtctttc gtatcttgac actagctatc catctgacat tcttctgaga tcttaccttc 60
 gtgaattttc caaccgtgaa tgactctaac accacctctg ccattcattg acttcatgcc 120
 tgtcaccatc cgatgtccac atctttgatg ccttattccg acctcatctt ctgtgcagaa 180

tacacgtgct gctgaatta

199

<210> 28227
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28227

agcgcgctat nnntttgatg accccgtctt ctacgtgcac ctatataaat aactcctgct 60
ttcggagtgt tccaagctgc caagttcgac tctcttccct tctgtctcatt cttcgtttctg 120
acettacaat tcatcacgtg gggcatttct ctttctgggtg tccacgcata ctctgctgat 180
gttaccatg ccgtttgatc gatcagcttc tcacaagctt ctggctatca catgtgagct 240
tgaatgagaa gcacacgcac ctctctggct cttccaagta tctcataagc ttgggtctctc 300
ataccagaa tatgcgtggt gctgtgtcac tcgcgtcctc acttacttta ctccatagtt 360
cattcagaga tctcatctcc cgtagagtct gcactcagtc gattttccag tgcactgctc 420
atgataacca agtgataatt ctgatacttg gggacaagat gtcagtacat tgatgtctac 480
gacatcatcg ctttcacaac aatgcagatt ataatttgac agtgtgtaca tgcttataca 540
agaagatacg acacgagaat tggttact 567

<210> 28228
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28228

nccctgggct gatgcgatgc ttctcgtggc gctatcagct ctgagctcgt gctgctctag 60
agccgacctg ctacgcggct agcgtggtgt atgatggggt acccgccaca tgggatgatg 120
ggaggtggga tgtcgatggt gcgcgctttc tgcacacatc tgetgatcac tcagtgtgctc 180
ccaattcccg cttggcgcac ttcaagttag ctacgtgct ggcgcggaca cagtatcctc 240
gatcgtgttc cggtcggtcc ctatcagatc ctacaagcta tcacgtcaat ctatctgctt 300
cagactccca gcatcatgaa ctagccgac caaccgttaa cgaggcggag gcagaaggct 360
ctgccagaa cgcgaactcg ttcaccaacg tgtgttactc atatacccc ttaacattgg 420

ctctgtaacg atgtttgggc cgttgatcga ctogaatagt gctgtgtagg ct 472

<210> 28229
<211> 409
<212> DNA
<213> Glycine max

<400> 28229

tgtacttggg ttagacatga ttgatacatg atttgtgtct ttaggattc aatttgggca 60
gaattggatg atggaaagtg tgatttcgaa aatctgcact ttatgcagaa ttttgctgtc 120
aaataggtgc agccgaattt tggctttgtg cataaaatgt tgtgtatttg ctggttgtgg 180
aaagagtagt acagattggg ttctggacgt tttctagtag atcccaacgg tcataatgta 240
gatttatgtg ctagagactt tcagtaaaag tttcgagtgc atccaacggg taacgaattg 300
gaacaaagag gaatgttgaa ggggtgtaat cgattaccaa ggggtgtaat cgattaccag 360
gcttagaaat ggaactggaa tggtgaaggg gcctctggta atcattatc 409

<210> 28230
<211> 337
<212> DNA
<213> Glycine max

<400> 28230

tcagctctga gccggggcct ctaaggcacg tgctgcatgc cgctttatgc tcttcatgcg 60
ctggaggatc aacaggagaa gctatatcat aatgcagatg atcgggagat attaggcagt 120
gatggtgtta ctacacaatc accgaattga taggcttaaa ctcgaccttc ctacactctg 180
gagaaagaca gatgcggatg cctacttgga ctgtgagacg aatatagagc atgtcatctc 240
atgccgctac tatgaggacg accgaagcgc gaagcatgcc gccacggagt tatccgacta 300
tgctattgtg cggtggagca cgctacatat gagagag 337

<210> 28231
<211> 381
<212> DNA
<213> Glycine max

<400> 28231

ttgatgcaac atatggagag ttaatgaaac aacgatattt gcgtccatg agaggctgga 60

tcaaattggag aatagagatc ataatgaaga agaaaggagg agaagaggga atgatggtgt 120
tcctagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180
tgatccggag gcctacttgg agtgggagat gaaaatagag catgttttct catgccacaa 240
ctatgaggag gaccagaatg tgaagcttgc cgccacggag ttttccgact atgctcttgt 300
gtggtggaac aagctacaac aggagagagc aagaaatgaa gagccaatgg ttgatacatg 360
gacggagatg aaaagatcat g 381

<210> 28232
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28232

agaactttnn tttgancct gacacgctct gcttctacgt gacgcatatc agctctcgac 60
ctggcgatcc tctgtagtac tatctgcacg cattctagct ttgtaactat acaccactag 120
agcccgaatg ggcgaaacacc accaaaccta gatctgagggc gctatatattg gcagaaaata 180
ttgaactcaa gctccgacta tgtgccttga atcatgtctt gcagagacat tatcgtgacc 240
atatagctag aggtgtccta taggaccaag gatggatgaa cggaccttta accgatactg 300
aggacaagat gcttgccgtc attgataagt gccatgataa actgaaacta gccgctagtc 360
gctagcttgc gcttnaggat caccatgcct tgatatctgc ttagagggat actatggata 420
aggggattga ctcatgttgc cgtgacgcta caacgtggac ggacctagta gctcttactt 480
cgatcactg 489

<210> 28233
<211> 420
<212> DNA
<213> Glycine max

<400> 28233

taacaatcag tgtcatacta ttgatcaaaa caaagcttgt ataaatatgc aatactagac 60
tcaaaatatg caacaaacac tatacctaaa tcagtgtcac agaaatcgga agaaaatatt 120
ttatccaagc acaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180
tatgggtaga ggtgtcatag aggagcaagt atggaggaag ggaccttggc ctgctgaaga 240

ggacagggttg cttgctgagt atgtcagggtt gcatggtgaa ggtagatgga actctgttgc 300
 tacgcttgca agtaagaaac accaaacttt attcactgtt ttgtttctta atatatatga 360
 ttggattttc acatttataa ctgacaatat agcataaaaa cactgatatt gttttcaact 420

<210> 28234
 <211> 76
 <212> DNA
 <213> Glycine max

<400> 28234

tccagagatc tttgatctga agattcgga gaagatgatt ccaagtttgc agagacgaac 60
 tcaacaagac ttgcca 76

<210> 28235
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 28235

tcctctctat ctctogaatt cttcttattc cctaagttct atcgtatctc gagtcttctt 60
 ccacgcgagt ccctaaagtc tttttcgag gcctctcaca tcgtggaggt tccctagccc 120
 tcgaaagcta agtatcattg gtgctttcat tgagcacgtg gatgaaagta tggcggaagg 180
 tacgagatcc aaagctcttt cgtcggaaaa aatggtggaa ttatttgca aatttgcagc 240
 aacggtcgag acgaagatgg agaccttacc ggaatgctta gctcatctcg aatcaaacag 300
 gtataatccg tagcaagtgc aaccggagac gacttcgttt tctgcatcag gttcacacac 360
 agcaccgcat tgaatgaatc tcgatgtgtc aagattcgat ggtgtgacgc cactgggttg 420

<210> 28236
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 28236

ctgtagacga tagtgaaaact cggagaccag tcgagagaca agcgtactca cataggttga 60
 tacggggccgg tagaaataca agcttctat ctatcaccct tctttatgct atatgacact 120
 tgggtatgcat gtgataaatg tcccttaaaa aagatacttc ttacataatg atatcataat 180

cagctgcctg tctatgagtg aaaacttggt atatgctttc g

221

<210> 28237

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28237

tggactataa gagttaaagt tgacagtaaa taatacttgt aacttggtga agttagtgga 60

acttgatgat ttgtcaagaa ctaaacaatag tttcagtggt tgatacgaac caatataaat 120

tcatgcatct tataatctcaa tataactttat gctaattgac ttaggggttg aatttgattt 180

tgttggtgaaa agaaatattt ttacaaaaat ctattattat caactgocct tctatttggtg 240

aaaacttggt atatgctttc aaagctttat tggacgataa ctttgtcttg tgaaaaaaga 300

tttaaaaaat ttctaaaatc acaactcaat cctctttctt gtaatacttg tctttacaca 360

aatgaatttg accatcatta ataagatgct ntatgtgcat gacatcaaca ttaatat 417

<210> 28238

<211> 411

<212> DNA

<213> Glycine max

<400> 28238

cgcttctaca gaaatgtagt tgctgtaaca ttatttcctt ataacagtaa aagtactgtc 60

gactgaaaca ataaagatct agccatattc agcaaatgct gatgctttct atccaccaca 120

aaatactgca gtggtctata gggacaactg aattgatgca gggtagcctg ctgttgagga 180

aatgtacgca atgccaattc aagagcatta acatatctga gctttttaat ttgaaatcca 240

aattgagtct ttattaatgc aaaaaaatcc ttaaccttat gagttgcttc actcttagta 300

tggagcaggt aaatccatgt taacctacta tagtcatcca caatggtagg aacatagtgc 360

attccttgac gtgtgactgt atgataagga cccatactc cacatgaatg a 411

<210> 28239

<211> 313

<212> DNA

<213> Glycine max

<400> 28239

tgaagaggta aatgatgata ctcaggctga ggtgtctctc atccttgga tatagattgt 60
caaagggcgg agagatgtgg tcccatgcga aacgatccat cgtgctgtca tgaatatctt 120
ttcatgctga tagtcagctc gccacatcg agcttcctgc atctcatttc tgtgaggaac 180
cttgaccata gcaccgtcct tctcctgga ttatcgtctt acgtatgtga ggctcactta 240
agtttgagat aggcgttgat gactgatact cttgacaggc aaaagagtga gacactctgc 300
aatgacaagt gat 313

<210> 28240

<211> 389

<212> DNA

<213> Glycine max

<400> 28240

gacgcttagg gatggaatac ttacttggtg gtgatgaaca aatgtctaaa cggaatcaaa 60
taatgcgaaa aatgatgacc ctagggtgc aaactccgca atcccggtggg tatggctttt 120
gaaaggggga aaagaagttt ttgaatgcaa aaacgtcccc cctttcgtca tctttatatt 180
ttggtgcaag ggtggctctc ccaggcgagc taacctgcat tttttttttt gagaggaaca 240
ttatccatgc ccccttcttc ctcatggttc agcgtcttgc ttaacttgaa cttacttaag 300
tttgagttag gcattgatta cttatttctt aaacagacaa aaagtaaaag agaactgcta 360
atacaaagga ttcggagctg tcttgcagc 389

<210> 28241

<211> 126

<212> DNA

<213> Glycine max

<400> 28241

tgcgtgtgtt attatctaaa ctatggagcc tgcacacaac tggtgtccat tgccatccc 60
tgacactgca tggatgaacac tcaccattga gagatctcat aggagctcta tgatccagcc 120
tacgta 126

<210> 28242

<211> 391

<212> DNA

<213> Glycine max

<400> 28242

tctaataccaa ggcaattctt ggtggtgaag ctccttcttc tttggctaata tccctagggg 60
atggtgcctc ccccttcttc ttttccttgg ccttccgttg aatctccttg gggaaaaata 120
ccatggagga ctaatgaact caaaaacagc ctcatagaag ctcaacaagca agcttccatc 180
atgttgagtg gtgcaccctt cttttgtaaa atcactcatg caccacaacat cttcatgatt 240
tgtgtacata gggactcatt aggtagggtt gttcttattt tttgtttcaa taaaaactta 300
ggtgctcata tgggacacct tatgtttgtc ataatatctt gtaggaataa tcaacatgaa 360
aataaagaaa aaggtatggt ttttcaatta c 391

<210> 28243

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28243

ttgcctgact ctttggcctc tgacctgacc cgggatcctg tgagtcgtcc agctagcctg 60
cacgcttgta ccaattagtt ctgctatact cacttatggg aacgggggatc ttattgcgaa 120
tggtaatggc gcagatggcc cgggattccg ttcttaatgt gcgcacgtta tcatgcattc 180
aatcacggaa cacctgagaa ctcaactgac tgggtgctatg tcgaataaccg gcctgtgaag 240
catagagata tctacacgtt agttctaact cctatttgtg gatttgagga gtccatgaag 300
cgcgcacatt tacaacgggg gaccacggat ttaatggcat ggtggtactg aataactatc 360
agtgtgtatg gaagaagtgg ctgacatttc gtctccagtg gtctatctat gtatgaanca 420
acgatgccta tgtggactgt gtgtatgata ttc 453

<210> 28244

<211> 408

<212> DNA

<213> Glycine max

<400> 28244

aatatatttat ttatatgtaa gcagattatt taaaaaatct gtaaaaaata atataaaatt 60
acggatattt ttatcattcg ttaatcaacg caaataaaaa aaattacagt tattaatacg 120

tggctctatgg tttggattca cttacgggag aataaaatac taaattaatt tataaaaattt 180
 aaaataccaa aatgtaatca ttgaatatat aaacattatt ttaattttta tttgtgtatt 240
 tttttgttct atcatttgtg tattttttaa acgtaaataa ccgttattta attacgtgtc 300
 aataactaaa taactataag tttctattta aaaattaaaa taatattgat aatttaataa 360
 tctaaattaa taattaagta tcgatatact tttcaaacta tataatat 408

<210> 28245
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28245

ntgaacctgg ctcttatngc cttatagagc tctgnaccct gtcgacctgt gcagttcaga 60
 ctgcggtgcct gtcggccttg ctgccgtgtc tactactgat atagctctag caccaagact 120
 catgttgatg aagcgctcat ccgtgatctg atccacacaa cctctatgaa ctacatattg 180
 ctctacttgg gtcacacatg tctgttgatg cgtacgcac ggacaatgag gcatagaacc 240
 taatcactaa tagatcatta gagtcatcta acggtggcac aactattgtc tgttgagcac 300
 cgtgtcgtaa catggcccta atgtcctttg taccagcata acatgtgatt actggttgaac 360
 acctaggcca taggttgcca cggttgacatt atgatggaac acgactgtat ttcaacagat 420
 cctaggtgaa gatttcatac caccgactat cgaagctcga tgaaggc 467

<210> 28246
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 28246

aagcttgtat agttggcaat tcaaacaagg tgtctacgtc aatgttcccc cctataqtca 60
 tattctctag tctcaaacca taaaatgttt ggtcagtgtg gttgcataac aaacctctcc 120
 aactacataa actagactcg ttcacccagt tgtttaaggc attgttattg gacaagggaag 180
 ctttgaacct catcaaaatt tgagcatatg tgtctcccaa caatggcaca aaacatatat 240
 tggccaacac caacagcata agaaggcaat aatatgctct tctaagagcc atagtaagta 300

gatcacaggt tgaaccaaaa tgggatattg gttgacgaga aaggaaataa tagaggggaat 360
aatgaaacta atgaagaaca aagaactatc gagaaactaa ttaagaacaa gaactatcga 420
gagtttgaaa g 431

<210> 28247
<211> 121
<212> DNA
<213> Glycine max

<400> 28247

catgcacgct tacatcattg tgcaaaactta gcacacaaac tgttggtagg tgcttcgtac 60
actcgccatt gattatgtgc atcacctaca ttatggaagt tgaaagcaca ttgggtgaaac 120
a 121

<210> 28248
<211> 415
<212> DNA
<213> Glycine max

<400> 28248

tatattatta tgctagataa caattgaaca tatacaagat tccattgtca aaactttgcg 60
ggcagaaagt tggttgttac aagggttcaat gcaagtgaag aggttaatcc cccaaattat 120
ggaatttgaa agtactttgg tgaaacttaa tgttgtgaag ttagtaagaa agtgggggaa 180
aatagacacc atacgtaaac aacgggtcaaa gctgcacctc ataaagcata caatatacaa 240
cataattaaa agttttaact cttttttatg atccataata cctaagggtg gatcttcaat 300
tatatatgtt tgaatagctc taaataaagt gcattatttg gtcttataaa tagtagcatt 360
tgcagcaagg atgctcggcc acatgaacat catttgtagg atgattacta ggcta 415

<210> 28249
<211> 266
<212> DNA
<213> Glycine max

<400> 28249

tcttgtatgc aaacttgaca aatgccctct tactcttcta catgacaagc ctatcttctt 60
gggtgaactca cacgctgact tattctatga ttgactctac cctatcaaga gtgtcgttgg 120

aacacttatg aggtccatac ctgtgcgcga atgggtgtaca gcctgattat gtcctatggc 180
 ggactcaaac atatgaacct ctacatactt aacatgagct gtgagacca ggaagtgtg 240
 atgaccttct ctactcttta cgctgg 266

<210> 28250
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28250

tgagacttaa ttgcgttggt cttcccataa gcagtagtca tcagtgcact ctcacccatc 60
 tccattacaa gcctttcttc ttctgaaca cacatggta ttaattcatt gatagactat 120
 ttatctttat gtgtgttgta ggaaatctta aatggcccat attcatgcgg aagggtgttc 180
 aaaatgaaat gcactatgaa ggactcagac atatcaacct ctagtctctt aagttgagct 240
 gaaatatctc gcattttcat gatgtactca cgcacacctt tcacactggg gagccgaaga 300
 gaagaanact tcatgatcaa ggtgcttgct aaagtcttat ctgaagtgat gaactgggtc 360
 tcaatggcct taagcaagtc tcggaccttt tcatgctgtc aac 403

<210> 28251
 <211> 347
 <212> DNA
 <213> Glycine max
 <400> 28251

ttggtctctg cgctacaga taaccacgat ggggtcacca ccacgcgct aaaagtggta 60
 caggacgacc tgcttatcga tactoctgaa gtgggcgaac ttgcattatc atctctcatg 120
 aaccagcgat gtgagcgcat aattgttaaa cttgctactt tcattgtagc tatacctatt 180
 gatatccaaa cacgtgacct acacatatga tgctaagcac agataagtca gatcgtaggg 240
 tacttctact aggatactag gtgctgcttt gtggacgaga ctacaactca ggggtatacct 300
 gctaccgatg ctgagagaca tattacatct ctgcgatgtc catccac 347

<210> 28252
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28252

tgttgaatta taacctccat ctacctttct ttaggttggt tgagagtgtt tacgccccgg 60
 tgttacttgt taatatggat gcgtagatct aaccggcaag tgtaccgagt cgtgcaagta 120
 ataataaaac ggtaagaact gagtatcgaa ctacaggaac ttgtctcatt tggtaaagca 180
 tcattcggtg agcagccatg tgtgcaaaga attgattatc atgagttaaa aataattgtg 240
 atttctattc taatcaaaat agtaaattgt agcaagtggg tgtgaaaaca gatatgtaaa 300
 agcgttgggt cctcctacta aaatacttga tgcaattaaa tgtatntctc tattttaagg 360
 ttattcctgc gttntatgct gagagctaaa ataccaaaca ccgtgtctcg tgagt 415

<210> 28253
 <211> 190
 <212> DNA
 <213> Glycine max
 <400> 28253

atatgtagtg ggccggctga catgatacat tatcagcagc caccatgacg acacgcctgg 60
 cggcacatgt atgatcattc agttacgacc ctggaaaaac tctaattttg gttgcaacat 120
 agcatgatcc tggcgccgcc atatgaccgt gcattccatg tgagggggga ccccttgtga 180
 tagaacaatc 190

<210> 28254
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28254

taagatggta cagggtagag ttttcccaat aattgcttgt tgatagcttt agttttctgt 60
 tactcagttt ggtcatgttt tcaaattaaa aaaaagaaga gaattttgga aacatttatg 120
 ttgtttgctg cettatattc tatattatca gtttaaaccg tgacgacttg acttggtgga 180
 catatatggt tattttgttt tgaccctgat agatctctaa ttttggttgc aacatattaa 240
 attccttaag cagtaaattg aatgttcaat tcatgtgatg ggtgaagtct tatgttgatc 300
 tatatagctt cgtcttttac aatgaatgca tgaaggattt atatgcctgc tctgtggttg 360

cagattcatt gagattcaca tcagcccttt cagtcgcact tgagttngtt ttctagtcac 420

<210> 28255
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28255

tctcaaggaa gttntctcaa gaaagcttct caaggaagtc tacctagtct ataaatagaa 60
 gtatgtgtaa cacttggtgt aactttgatg aatgagagtc ttgtgagaca tacttcaaag 120
 ttacacttct ctccctcttt tattccttca atttcgtgct ccccccctctc tctttctctc 180
 cctctttctt ttccctccatt gaagcatctt tccaagcttc ttatccaagg ctcatcttgg 240
 tggatgaagct ccttcttcca tggcttattc cctagtggat ggtgcctcct ctacactatt 300
 ctcccttctc ttccgctgca tctccatggt ggaaaatcac cattaaagga ccttattgaa 360
 gctcaaagat ccagcctcca tagaagcccc acaagcaagc ttcatcaaga tccttataga 420
 ca 422

<210> 28256
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 28256

tggcgccctac tataacctat tctcctatga cattctctgc acacatatgg tgatgaggca 60
 cctgtatggg tcttcattgc ctctctataa gccactcgac acacaaacct gacaagcgtg 120
 cttccatcca ttgaggactt atcctctaag tcagcgctgt cagattatcc ttttacatcg 180
 tccctgtcct ttacacgtgt gatcccataa cgatttatgt gagtgctcga acacatactt 240
 ctatctcttt cgatagacat atcatcgtga tttgttggtt 280

<210> 28257
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 28257

tcttatccaa ggttcatctt ggtggtgaag ctccttcttc catggtttat tccctagtgg 60
atggcgccctc ctctcacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagcctc catagaagcc acacaagcaa 180
gcttccatca gttggaatt ttgaaaatat gtcggagctg agagaaaaac cctttttatc 240
gcaacttttt tttccccgta gaaaccata actatatcag taaaactacg atcacagact 300
cgtcaaccgt tggattgtcg aaaaattgtg atatgtgggt tgagattcaa ttccgcacac 360
cttcatcggt gagattcgcg aaataatggt catggagaga gaaaatg 407

<210> 28258
<211> 166
<212> DNA
<213> Glycine max

<400> 28258

aagagatgga ctgacacctt ggcgtctgcg tattactcgc ccatgatgag aatgtacact 60
ctgagatgcc cctttggaca tgccccacgt atgtgcttat acatgagcgg gacttgctcc 120
ttcacagga tgaccacgct actctcgata gacatgccat acaaac 166

<210> 28259
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28259

tccagattgg tataccatgc tacagctgcc ccgtgccaag ctgtcttgaa agaaatggac 60
taacaacttt tcgtctgcag aatacacccc catcttccga caatacaccc ggagatgccc 120
ctttggacat gtcgtccctt tgtacttata aaagtctggt actttgaact tgggagggat 180
gacgatgttg ggtacaagac ataaatctgc caaatccgag aatgggtaat tgccgaggcc 240
ctcgactgcc ctcaacctct cttcaagcac ctcaatcttt cccttatctt ccgtgaaggg 300
aacaaattct ttacgggtg tgggtgaggg cgggatatgg cggactatgt tcggttgggg 360
tatttcatgc gngnacggat ctttgaggtg gagcangggg caagatgggt atc 413

<210> 28260
<211> 198

<212> DNA
<213> Glycine max

<400> 28260

tgttgtagat accatggacg gggaatgggg actgccccga ttaatgaccc tcgccttcgc 60
ggtggcaaac accttctacg accttgacga cattcagggg ctatggatct attgtcggcc 120
tatgatagac ttgatggccc gcataattag caatcatcac gaaactttga tgcgttagtg 180
aaccttgact acatatga 198

<210> 28261
<211> 404
<212> DNA
<213> Glycine max

<400> 28261

tgtctcagcg tctatgcgag acagaaacca tcatgttatc tatcatcgcc aagtaccaag 60
aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gcccaagtat 120
atgcggaaaa agaggctaga ggaaggtga tcgactcttt acaccaagag gcaaccatgt 180
ggatggatcg gtttgcctct accttgaacg ggagtcaaga acttgccccga ttattagcca 240
aggccaaggc gatggcagac acctactccg cctcgaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatgaccc acataattag aaatcgttag gaaacttgta 360
tgggtctctca gaccttgact agatatgatt tctttcttta aata 404

<210> 28262
<211> 209
<212> DNA
<213> Glycine max

<400> 28262

ctatagagac taactcgctt acatgcactc tagatatgaa actatgacgc cttggactgc 60
ctaattactc agatagccct gactcttgaa tctacgcctg atgctacagg atgtgggtcta 120
tggactatta cagatcaaca taccactttt tgtgacttcc tgcagcaata cggcgctaac 180
gagcggcctg aagctcttgt tgccgacat 209

<210> 28263
<211> 515

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28263

cggggatgan ccattgtact tcaggcaatt cagctcgtac ccgngagtct tctagatcac 60
ctgcagcatt ccagcctggg cattttaatt ttccttggtg gttaaaagaa tatgacctat 120
tatgatgtca tgggtgcttca aatgaaaaca acagggtata nggggtaaga tggccatana 180
agaacttgag gtggagttgg agtgcattgg caactgtttg atccacacaa gaagttttgt 240
ttcttaaaca ttttaaccaa atagaaaaac tactttggga aatgggagcc cccacatacc 300
aatgacgaac anattgacta gctaactagc tcanaacacc tttatctctt aattaaaatt 360
acctagatnn gtaatcattc ttttattctt tgattgtttt caaatacact acattgtgaa 420
tgttgaattt atttgaacat tgtctattcc acctgagtac ttagattaca gccaatggac 480
ataagttgga cttaaactaa acaattcatt tcttn 515

<210> 28264
<211> 183
<212> DNA
<213> Glycine max

<400> 28264

ctgaaaactc aattggggag gaatgtggca atattgtatg gatatgtatc tcacacacac 60
aagaatctag ttcaatagta ataataaaat caaaaatcag tcattttctt ggttggtgac 120
tcatgtggac ttgagccttg atctcttata atggagtctt gctttttaat tcatggcacg 180
aat 183

<210> 28265
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28265

gcgaatgagn catgnatagc cgggcnaac agtcccgcga tgcttaagtc aactgccgga 60
tgcagcctgg attatttaag ttctttcagg ggagnggnag aatggaaatt cctctttttc 120
cgtaaaagca tgcctaaaat gcgttcatac ttcaagtagg ctgtgttttc tatgaacgca 180

taagtggggc gctctaaaaa atagatactg tggaccctgc agcattaata gattggagca 240
tctgacgggtg cataaactat ctgatgaata tcttgtgggc ttgggtgctt gctctgagct 300
acatcacctt catttatgct cttgctctcn ggactatatg ctatcgttcc tgagtttttg 360
ttttgaccga gccatttgat gactaattcg cattaacggt tctaaaatgc acatgctgtg 420
ttgccgtggt gagccaaatc atctgtcaaa atagccgggg 460

<210> 28266
<211> 206
<212> DNA
<213> Glycine max

<400> 28266

tcggcactca tccacaacta tgacctgagc cgatcctatg agatattgag ggatgctggg 60
tggtttccgg tcaaacgtta tttcgaatgg agagatacta gttgcgaagt gaattgaggt 120
gttgtaagac attctgcca catcatgaaa tttccccaag tggttggttt cgagtgaaca 180
taagcgcaga agtactgctt cactac 206

<210> 28267
<211> 231
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28267

gcgatgttgt atgctaaagt gctgaggaaa ctgtttagat gaaatatgag ttaacctagg 60
ttggaagtga gaatgggtgt atgaatggaa gagagtgatg ctctgaggtt gaacgttagt 120
ctgaattctg tggatatgga ggttaagtga gtaatcctac ctgaaatgtc gttangactt 180
tgaaaacttg gctggctaag agacaaaatg accaagtgc ctgagcctt t 231

<210> 28268
<211> 318
<212> DNA
<213> Glycine max

<400> 28268

gcccgttgca ctcgagatt gcgccatctt ccgtgctcac aagatatgtc atactgactt 60

ttgagtcacg ctaacgggcg gaaatactcg agtgggttatc cgtataaatt gtttgctgtc 120
tgtaagatga aaagcctgat aacacgcaga gtctaacgtc gtcttcagcg cccttcgtta 180
atcgcgggccg acatgcccgt tgacacgcgg agatttacgt catcttcgcg gtcacaaga 240
tctgtcatatc tgacttttga gtcacgctga cgggcggaat taccgccagt gggttatccgt 300
ataaacattt tgctgtct 318

<210> 28269
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28269

agccttggtg attatgtgaa caaaaaaaga acttggataa tgttgtagtt gttcactcgc 60
taagcgcaac actngcgcta agcactaagt cttcatgcgc taagcaggcc cttgctcgcg 120
ctaagcgcta ggacccttga gtattggcta gatggttagca ctaagcgcg cttcattgcgc 180
taagctcaat tacctctgtg aaatctgaag ttctcacatt gcgcttagcg aggtgatgcg 240
ctaagcgcaa ttccctcttt gttttggaaa tctttggaat aacgctaagt gccagataag 300
cgct 304

<210> 28270
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28270

ttatgaccct nggcttgccc aggctagcct ctggcttgctc tgtgtcccca aagagcttan 60
gggtgaagta accagctcac ctgggcgacc aagggttactt catgttgaag caacagctcg 120
cctaggcgag ctacagataa atcaagtccc ctcatccta taaataggtg tcaggagggc 180
tgaagaaagg gttcaacttt caaacataaa gatttnttta gtgaaatttc aagaaaagaa 240
gaagaaagaa gagaataacg atgccgatgc gctaccgaat tggaccataa tcgacttcta 300
catcgttcat cgttcacgt ttagtggtct tcggttcgtca ttcgggttagt atttatttta 360
agtatttgaa tacaatcta 379

<210> 28271
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 28271

```

tttgatcgtc tcgatatata atgcgcctga gtcgcacatc cgagttaaaa gttatgaacc 60
tttgaatatc tcgagagctt ccattgttca atttcgagcg tctcaatata ttatgcgcct 120
gaatctgacc tccgtgtgga aagttatgac catttgaatt tctcgacagc ttccattgtt 180
caatttcgag cgtctcgata tattatgtgc ctgaatcgga ccttcgagtg aaaagttatg 240
adcatgtgaa tttctcgaga gcttccgttg ttcaatttcg gcgtctcgat atattatgtg 300
ctgatcggac atccagtga agtat 325
  
```

<210> 28272
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28272

```

actcggaggc ctatttggtt cntatatatc gaaacgcttg agattgagca acggaagctc 60
tcgtgaaatc caaatggtca taactttcaa ctcggaggtc cgattcaggc gcttaatata 120
tcgagatgct cgaaattgaa caacggaagc tctcgagata ttcaaatgat cataactntt 180
ctcacgtagg ttagacttac gcgcataata tatcgagacg ctcgatattg aacaacggaa 240
gctctcgaaa attcacatgg tcataacctt tcaactcggag gtccgattca tgcgcataat 300
atatcaa 307
  
```

<210> 28273
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 28273

```

agctttttta ttttacaaga ttaagctctg atccacttgt ttacaagtgg cctcacaatc 60
ttaagaaaga gtggttgaat caagatatta caaactatct tccaattaa gattctactt 120
tgatcttaat gcacgttcca agttccctta atgacgaatt tcttaatgat gattcacatt 180
  
```

aaacaatttg agtgtaaatt taaaacaaca atagataaaa gagtgtaagg gaagagaaaag 240
t 241

<210> 28274
<211> 284
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28274

tccaagagcc tacaacatga cttacctcaa attctattac agttaaactt gtacgtggtg 60
atgtactatn tttcctacga gattttttgt taaatagggt ttaacgaggc acacccaaat 120
tttacattga ataaagtact atttttatga gttttattag ctttatagat ctgagtagac 180
caattgggtt ctctgactaa aactcaatg ctagggataa ataagaccga ataaatatgt 240
gacttactaa aggactgaca cccacagtca gccaaagata gatc 284

<210> 28275
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28275

agcttgagag ttatatgtcc cttgccttat aattaagagc aacagcaaca acaaaatatg 60
aacaattatt agatagatgt gtacctagtg aggcgtgcan ataagtacga tgtatatatt 120
gtgttgggag caattccaaa tccataccta tcttgttgtt actatctagt ggaaaggata 180
gcacgaggga taaaactat agtatattac cgagtataaa gggcattggt ttggtctaaa 240
ttcaagttct tctccacttg gcaat 265

<210> 28276
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28276

actcgaagat tacacgggta tcttctagcc aatatatttc tttgtgatta tatatgnnga 60

aatgagagat agatntagta gttggttgat gaacgaggta atattatgaa ttgagttatt 120
ctccaccatt tgtaattata tgggtaaatt ataaacttaa tgatgattta ttttagtaat 180
tagaaacaca attaattagc aaaacgtgtg agaaagtcac gtgtgaactt tccttttttt 240
aattttattct cctatttata tactatagat atagatataa atgttataag tataacaataa 300
gattatctga ctgtacagta aaaaacagat tatttcgatt cttttgttcg gctttaattt 360
agttgaatct agattttttt gaatcataat agtggttatg ttntgaaatg gttctaacac 420
cctataaata actattgcct ctaaatttg aactaaacta aatc 464

<210> 28277
<211> 329
<212> DNA
<213> Glycine max

<400> 28277
agctttatat ttgctggttt cagacatgaa ggccaagtcg ccgctatatg cgacgatgat 60
tccacgacga gatcggattt ggtacggcca tgtcctcctg cgttcgcgact atgagattgg 120
cgagtggagg aacgcccata cgtctacgcg ataagcataa tgtacccctt tgtagcttta 180
gaactctacg gttgggccta cgcttttagag tttccttttg cttacgcatg atgtgctctg 240
ttcttgaagc tataatataa agatctttct tcatatattc ctgcacctct acacattctc 300
attcctctgc atgtgtatgt ctttacgca 329

<210> 28278
<211> 304
<212> DNA
<213> Glycine max

<400> 28278
tttcttgacc ttctcctac gagagacat cttcaactca atctgtgcct gtaaataatt 60
ataattcatc acacaaattc aaattgcata taaaattaaa atacgttata attaaagata 120
taactacctc tcttgccac actgtggcta ccacatgact aacatatgat gtcaacacta 180
atgtatcttg aggccacct ggaagacct atgaatcacc acctacatcc tttgtaattg 240
gatcatgacg tccctcatga gtctcatcaa cagcatcatg gatatgcgca ctatcctcga 300
caat 304

<210> 28279
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 28279

agcttgtttg tattattggg tacccgacat atgtggtact aggtggagat cgggcgatgg 60
 tgcaaatcaa ctctcccaca tccacaaatc aaacatgaac ccaccatccc cagatgccca 120
 ccttcaacta agctcacgta cccgcatgta gcgcttattc tcattcctct cggcgtcggg 180
 tcctcatcaa cctctctaag ctttcacaat atccaaacat cattaactac cctaaaccaa 240
 gaaaaaaggg cacaggcaga taactctgcc cataacacat tccaatacca cagctttccc 300
 tactcaaata ccccagttac attctcttc 329

<210> 28280
 <211> 475
 <212> DNA
 <213> Glycine max

<400> 28280

aactcaagct tcaggctgct caattgctcc atgttgctgc atggaatgtc aaatgtctgt 60
 aacgtggtca gtaaagagg acaaaccaca gacccttgca acagggtacaa atttctgggt 120
 caaggccagc tgggttacca agttaaccaa tgcattcagt tttccttcaa gcttcttagt 180
 ttcagatgat gcagctgagt ttgtagctac ctcatgcact cctctaata ga ctatagcatc 240
 atttctggcg ctaaattgct gggagttgga agccatcttc tcaattatat ctctggcttc 300
 agtaggagtc atgtctcaa gggctccacc actagcagca tctatcatac ttgctccat 360
 attactgagt ccttcataaa aatattggag aacatcctgc tgcgaatctg atgggtgagg 420
 cacttgaca tagtttctaa atctctccaa aactataacg gctctctcac tgatt 475

<210> 28281
 <211> 229
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28281

agcttgtttt ggggcttcta tggaggtggt atctgtgagc ttcaatgggg tcctttaatg 60

gtgtgatttt ccaccatgga gatgcagtgg aagacaaagg aaaagacgtg agaggaggcg 120
 ccatccatta aggaataagc catagaagaa ggagcttcac caccaagatg agccttggat 180
 aagaagctng gagaggatgc ttcaatggag gaaaagaaag agggagaga 229

<210> 28282
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 28282

ccatcttgac ttgctccaac tcaacattaa acattaataa cagttcttca tctttttcct 60
 tatctaattc agcataattg gcatttttct cccaatcaag acactcatat tgatagtgtc 120
 ctaacttggtg acattcgaaa cattcaatag cagctgtatt gaaggattgt cttcatcttt 180
 ctctacctcg acctcctctg gatgagtcgt tacctctacc tctacctgct ttgtcttcgt 240
 gggagatctt cagaacctgc tcgatcttct tttccaogac ttctcatcc 289

<210> 28283
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28283

atggcgaaatg tgcaccgact acactaatct gaacagggca taccaccaca gacgtgtaac 60
 cctctcccca acatcaatan ggtgggtcgat gaagcgtccg aattcaagtg ctaaccttct 120
 tggatgccta ctctggatac aactagatta gaatgcatcc tctagatgag gagaanatga 180
 aattcataac taanaatgtc aacttttgtt acaaggtcat accattcggc ctaaaaaatg 240
 caagcgcgac attccaatga ccaatggacc gagtcttcaa caacagatcg gacgaaatgt 300
 caggtatata tggatgaca 319

<210> 28284
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28284

tgaaggagat cccatgggta acttgtccag aatcatgtgt tnnattgaaa tangttntng 60
 gncaaacttg agggacacat ttctaacaca gatcaatcaa acttcacata acctaacatc 120
 cacaccaagc aatcgcacaa agataattca cacaacactt caactaatcc aaattaatca 180
 aataatcaaa taatacaaga aatacatcaa acatctatct tcagttatca aaacttcagg 240
 gcattacata ggggatgttg tagagaatgg aaatcacatt ccatataatg gtgagttgaa 300
 caagatcccc gaaagccaaa ggatagaaga ganaaaacaa agatgtntgc tcaactccaa 360
 agcccgtaac actctgttgt ggctctctct gaggaagnta cacccaagtc acactccaga 420
 gtgccaacag acggggaacc tatgaatggg 450

<210> 28285
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 28285
 ttcttgtgtt ttgtaatgga ctcttctatt gcttgagtct cacaggttgg ctaggggtgt 60
 ttaactcatc tgaacgcact tggagtgttc tttcagtacc tccaccaag tgcccagaga 120
 atttttttgc caaaaattgg tggaaggga aattcatgac agagcatgag ggagatataa 180
 tagtaattta tacatgttct agtgaaaatc ccattatctt taagctagat cagatgttaa 240
 tggaatggga agagatgaca aactggatg gagtaactct ttttgctagt ttcttgtctt 300
 ctcatgcaag gattgatctc cccggaataa tgagaaatag tgtctacttc tctaaagttc 360
 gtctttatgg aaagcgctgc atatcattct ctcttgatga ctgtagatac tatcctcgta 420
 agcagtggca tgactg 436

<210> 28286
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28286

ctttaagctg gtttactaaa tcataaatgt tcagtataac tagttgttaa agcagttaan 60
 aaatataatg acatattttac aaaggatgtt aaggaaacta aataaatatt ttaaggataa 120

aaaaatatat ataaaaacca taagctagtg ttttaaaaaa tggtacttga aatagcattt 180
 taagaaacaa tagaaggtag ttaaaaaagt ttgtttacga aaaagtcaaa caagttttatt 240
 aactagtaaa aaaaactaga agctaattgga aatgactgac ctaacataac ctaaatacaaa 300
 acttttgaat gtttcatcaa gaggggggaaa ataggggtgaa tggaataaaa atagatatga 360
 aatacagtgg aaatgagaaa gtgttgaatg aaagagagaa caagagaana gattttntat 420
 ccatacgaat canacaaata tcaanaaatc tacaataact tatgcatatt g 471

<210> 28287
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28287

agtggaaaact gaactacgac nnatcgccaa ctgagctcgt acccggaat ctctaagtcc 60
 accgcagcat gcagcctggg ttatgcttcc ttctataaaa cccatttaac ttttgctggt 120
 aaaaaaaata caatcaaac tttttctttt tcatcttgga ccagtatttt gattggtaga 180
 ataaggaaac acttctaaca ctggattatg gacaaaataa catattggag ctatcagcat 240
 aggctattca aaagatacta tattgatcta atcgcgtcac aaacagggtc attcagtcac 300
 aactagacat caatgaatct cccaacgagg atttacaatt aagctagata acagttacat 360
 catatgtacg tattcatana cagcagcaga attaatttaa aactttaatt acttggatgc 420
 actcacatcg agagaaagaa ataagtatta tcgattaagg aaagctgaca accaaagtcc 480
 atacacaaat actattgaat gatgccca tgaan 515

<210> 28288
 <211> 233
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28288

tagatttttaa tgcagatagt aacccttttt acaattgaga tgaagaaagg acacacatta 60
 agataacacc tatgcaatct aagattcaaa taagatacct ttttattact cgttcttaca 120
 aatcaattaa cactactaac agttgatgtn cgatcaaaaa tcaagggtgca taatattacc 180

acataatata acacctaatac taagcattct taattttctaa tctatatgtc ata

233

<210> 28289
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28289

ttctggcctc ggttcgaatt aaaggcggct tgaacaaccg cttccgcttc cctaactgta 60
cttgaggcng ntgccgtggc tttatcctct atagatttct ggagttttta catgaccttc 120
gagatggaag ctgatcgagg ccgtaccoga atcaaataaa catgaaaatg cagaattaag 180
aagtgatcct atgttcgttc caccgaacag tgacaagcca aatgggcata atatacttgc 240
agtaacgatg ggggggggtt gggtgtttgg tattaagag cagaaacaat aaatggaata 300
cgaaactact aatataaaaa cgggttgctc ctctgatcag aaccatctct tctcctggta 360
tggagaatcg tccaaacggc accattaatc acct 394

<210> 28290
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28290

catctaattg tegtatcctt catcgggggt caattgtact ctaaagaatt aattgcattt 60
gatcaacta agatagcttt cgtcaattct aaatttctct aatattaaaa ttgggctttg 120
aataaagaga gcaatcattg atagtacact tagtgtaaga tttaatgtct catgtgagtg 180
gcatgtgggt tattaaggat taataattaa ataattaatt gttatggact aagttgtaaa 240
tgggtcatgg gcttaagtgg agcagtttct agatacatct actatttgat gggagtagtg 300
gttataaagg gatcaatacc cgcttacatg aaataagatc tccccctaac attagatatt 360
atttcatcat agtcttcaca canaagatag aaagaatgan agaagagtt 409

<210> 28291
<211> 356
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 28291

tacacattat gttgatgcaa attggaagtt gaatagtata atgcttaatt nttctcattt 60
 tcctcctcca cactcanggc atgagatggc taaagtgata tantgggtttt tggaagaatg 120
 ggggattgaa canaaattttt ttccattaac tctatataat gcttcttcca atgatataat 180
 gcacgactat ntgaaggaaa gactatcttt gcatactaatt ggtttagtaa gtgggtgggta 240
 attttctcat atccgatggt gtgctcacat tttaatcctt attgtcaaga aggggttgaaa 300
 gtagtcgggc ctgctataaa caacattaga gaaatcatta agtatgttag tggatc 356

<210> 28292
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28292

tagactctgg gattttcttt tcatatttag aaccgatga tatttgaaat cctattgttg 60
 attataagtc taaaagggga tctanaaaaa gcttctaacc aggtcaaagc cacagatgct 120
 tcatctactc gaatcaatta taaactcctt gttccagggt ccaccgttcg tgttctatct 180
 ggaacatttt cagggtttac aggaccctc aagaagctga atcgaaaaac caaattgggtg 240
 agcttcttcc ttaacatgca taaattgaca taaagattat ntntcagaca cacacaagtt 300
 aatctgatta anattgctgg aatgccata tgaaataaaa atgcttatga aagctgtaaa 360
 taatgtgtga aatagcgggt caaagtaata tgtgaattct tttctccctt cttttagtag 420
 tcaaatatc 429

<210> 28293
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28293

gatggatgaa catgagnaac cncnaatcag caccgaccgc gatcctctag agccaacctg 60
 aggcattgag cctgggtgggt ggtctccan aaagtggctg ctttcaaagc agctacccat 120
 gatattgatt cacatgtagg gtaagctcga gccggaaatt ggaagaaccc ctgaaagggt 180

ttcttgtggc ttgattcctt ggaggaaggt aatacgaagc tgaacaagtt ttacattggg 240
 cttattttga gaaatttaca ctcagatttt gatcatgtgc gtgatchatg tcttgcttgt 300
 gaccaagttc cgtcaatgga ctctctcatt actagactcc ttcgtgtgcc ccatgtgttg 360
 aagataanac ttanctaagg cctngaatat caccattgct catctcgtga agaagacgag 420
 gtcgcacaat agaagaggcc gggatgaagga gtaatgcctc atgcactatt gagacgatgg 480
 ccacagaaac tgtc 494

<210> 28294
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28294

tgagttcatt tgcataatcc ttcatttcat ttttatgaat ttgaatctag ttgttagtaa 60
 atcttactca gtagtgataa gacaggcctt ntatctgttt caccagaata aattactgat 120
 ttgtactacg ggcaactttg ctacaataat cagtgggac ctcctccagg agaaagggtga 180
 naaatgacca atgatgtgtn tcggtttatg ttctacagtg tatagacaca tgtactgtat 240
 gggatcaact gccgacacca cgatctcaca ttgccttagt gacagcatga acagtatgat 300
 ccttactaat 310

<210> 28295
 <211> 245
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28295

ctgattaaat gtaatnagag cctatagatt tcctttctct tttgttttct gaaatctacc 60
 tcattaaata aacanagaga tcttgnttca tctgttcttg cagttccacc ttttctcata 120
 tcattttgca tgtntntgtt tctttggtct tgtttggtat agatatgaag gtcgattctt 180
 tgaggatcct aacaacgagg gtntgacaat cgattttgat agagatataa gccaaacgat 240
 aaacg 245

<210> 28296
 <211> 179
 <212> DNA
 <213> Glycine max

<400> 28296

taatccaaag acgatttttg aaaatcatct ttgaagtcaa gtgttatggg ctctatactc 60
 gtgccctttc ttgcatctca cttcgtctca atagctggca cctctcaga gtctctttat 120
 gccctctctc actcacgtct ctgtcaaagg tgcccagcac taccgttgaa gcttccttc 179

<210> 28297
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 28297

tgcctttgat cttcttcac aatggaaggg tgtgcttctc gaatataaag cgcgccgcaa 60
 caccactgc cgattcgcta ctggacatga agacggttgc ccggctttat cataacataa 120
 aataaggaaa cataacatag cctacgatac aggagaaagc ctaaggggtc atacgagcaa 180
 taaagtatat ctatgcctat gtgttaagtg agactcagct tatttttatac gacaccgaca 240
 agacagatta tttttagtcc tagatacacg actgcgggtg ctgggcgtag accactatac 300
 agcagaacat aaaaccggag tcgtaactgc tactatacaa aacggtggta tacgtgatta 360
 gaacactact ctgaaagggc agtgtgaatc gccctgcga aagaatcaaa cactcc 416

<210> 28298
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28298

tgcgggatgg taggggatca agaaggaggt gtttactaat attgtttcca agaaggcgaa 60
 aaagatggag tgctatttac aaaatgaata ccanagcctc aaataatgta ttngtcatg 120
 actctnttgg attcacattt tttattatta ttgttgata tagttgttcc attgtcccta 180
 aggttttgct tcaatttgtt ttaaattcaa gctgccatgt caaggaaaag gataaacaca 240
 cgcagaggct caattgtatt aaatttggtt ttggttctct tgctttaaga tttgacttct 300

ctaagtctga caacatcaaa atatacaatg gaattcatgg atgcttatat caagtagcta 360
 ttgattttt taaaatttct aagtttctga ttattaacgc acttgatctc cttgtaatct 420
 tttcatatat aaattttcat ctaaataagt tcatcttatt ctatttttag 469

<210> 28299
 <211> 532
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28299

gcgatctagc gtcatgcatt acannancnc atnnggtang nnacggggcc ccnaganagc 60
 cggcctgcaa gcatgcaagc agtantttan catttttgcca gacacccgcc gtgntgaggg 120
 agtccggcta tagattgaca gacaacatat aaacacagtc gaccctttga tctaacatat 180
 acaaagaacg cggctgacac tgacttgatg ctcaaataga tgtaaggata ctgtagccga 240
 tcgttcgca tgagatgcag atcacaggca catccggggc gaacaacgtg actatggaat 300
 gggatatgatg tgtgtctaca gacaaccctt gcgggcacag cacagcaaaa cgaacatata 360
 aatcctngca taacgcgtgg tgggggtctgc acgacctacc tcaatgggac acaaccctt 420
 acatggtgcc aaactacttg tttagacttg tgggctttcg tgctatccac aacacctcta 480
 ttagactggg ttttcaaaac aacaccnagc ccgtagtgct ctaagtaccc cc 532

<210> 28300
 <211> 1082
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28300

agggactana gcctttagnn ngncatacng ncnantnnna ncnnnnnnan annanannan 60
 nnannannga nnacnccng cgcggnaggg ggttttctcn tncangnaca gcgcnnnnga 120
 ngcnannagg caataggacg agagacgann angcannang ngatanngta ntactnntan 180
 ancancanan cnacgncacc agaaaaaacn accncnacgg aggggggagg gntgcgatag 240
 tgcaaacgan nantnnnna cgannacaaa tcgacacccc cagcancacn anagtcnaca 300
 gggatgcnaa gtttantgta ctgcagtaaa atgaacccgc ntcgacttag tcncntgnt 360

ntnannanac ctagtgctgt gatctgtcgc ataagacnnt gagttcagaa cccangcgc 420
 ncagtataaa ctgactatag ccngataccg ctanaggcta aatcnagact ggtnntntta 480
 nantccttag agcgaagnat tattcggtcn ncttcgcgca tcgaacnaga nanaaaatgc 540
 tncagtccca gcggaanaanc aaatctcant ctgtaatagt tggaacgtct acgattggta 600
 taggtngggg cagacgacna ttgggcntgt agcctgggan atgggtcntnt gggtntctana 660
 nngaagaaaa gtacgantta ttggcgatga tcattaacga nagtcatanc ntctgncgag 720
 taagcgggtga cacntagnnt ntcccgaana ngantaaact atagcnnngca nncgatatca 780
 ttgaagtcct tgatantnta cttgctcgcc tcagcntata gtccactgct gntcacntag 840
 ggaaactncc ttcacatcatg actctaagt acatcnangt ntcancggca gnnagatgta 900
 tactangatc aggacttatn ngttgaggtg tagggcatna tcgntcgtca tcgaaacatt 960
 gtaacgtcgg ggacctagtg cgactactct aaattgannt ggcacnanat atctggcagt 1020
 atcgtggtgc aaggggtcgg gctaatacgc tactcgtcaa tcggccagtg ncacgaaccc 1080
 gn 1082

<210> 28301
 <211> 87
 <212> DNA
 <213> Glycine max

<400> 28301
 agctgtttct tcattttaca taactcgggg cgacacggcg gtgtatgatg ttcttgctct 60
 ttcgcgctta tctctctctc aaatttg 87

<210> 28302
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 28302
 agcttgtctt ccaataccct gatgaggatg tcccatatgt tcttaaaact ggactgattc 60
 atttgcttcc aaagtttcat ggccttgac gtgaagaccc gcacaaacat ttgaaagaat 120
 ttcacattgt ctgctccacc atgaaacccc cagatgtcca agaggatcac atatttctga 180
 aggcttttcc tcattcatta gatggagtgg caaaggactg gctgtattac cttgctccaa 240

ggtccatcac gagctgggat gaccttaaga gagtattctt agaaaaaatt ttccttgctt 300
 ccaggaccac agccatcagg aaggatatct caggtattag acaactcagt ggagagagcc 360
 tgtatgagta ct 372

<210> 28303
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28303

attgattcaa agaagttgtg atgttgataa aggtgatgac aaaaagctca aagatcaaga 60
 gcaattcatg ataacaaaga tgatgatctc aagaaacana gaatgagttc aagattgaat 120
 caagaacact tcaaggttca aaaggaaatt tgatttcaag aatcaagaat caagtttcaa 180
 gattcaagtt ccaagaatca aaatcaagat tcaagactca agattcaaga atcaagagaa 240
 tgctcaatta agataagtat taaaattttt tttcaaaaac tgtgtagcac atgaattttt 300
 ctcaaaacct tataccaaag agttttgact ctct 334

<210> 28304
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28304

ngcgcaatga acctaactat cgcanacacg caattnagct cgtaccggg atcctctnag 60
 tcacctgcng catgctttct taaatctaga gacaaaaagg tgatttttagc agagacgtgg 120
 ctttaacgag aaaggcataa gggatggtct tcaaaatctc aattggagtc catggtgac 180
 gcttacaacc atgaagaaca ttatgaaagg cttctagatc caacacctga tgagccataa 240
 tcatccaaga agccataaag gaatcctcac tctcagctag attgcaagat tatgtcatgt 300
 ntaatgacac agatacattc tatgaagaga ttatcaattn tactttattt gcagactgtg 360
 atccagttaa ttttgaagaa gcctcaagtg acgagaattg gataaaggca atggatgatg 420
 aagatcgtgc tattgagaag aatgacacat gtgagtnngt ggacttgaca acaacaanan 480
 gcatcattat antaaaatgg tgtccg 506

<210> 28305
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 28305

ggcagtaata tcgtagggta atgaatgaca tattgtgatt gccaatatca catggctcaa 60
 tgagcgctga tattagacag taacaactat tgattgacat aatacgcagc ccatgcttga 120
 aatcatatga ataggattcc catatattca aagagtgtca ataaataatg cctactaact 180
 atggtcatta ggaaatgaca agccacactc tcgagcacat gacagttcac actctcctgt 240
 tttccataac ttctgatatg ctgaagaaaa ttaaaatcta gcatacacat g 291

<210> 28306
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28306

ggatccttaa gtcacctgcn gcatgcttct gtcttgtcag aatacggtag acatacctga 60
 gcattttttt acacattcta agcacaccac atgcctatat ccggaaagac tctggaggca 120
 gcacaggagc agcttttgcg agatacctat gctaacacaa tatcactctt gtgggggatg 180
 cgaacgacaa ctgatgaatt acttaatatg aattgattgc gttcttgtgt caatgctttt 240
 tcgtgctaaa ttctgatgct cttggctgat caccatttgt gtcataatag gtgctttaca 300
 ttattgtgct ttgacttgat gaacaaattg aactatctga cataggatct gcgataagtt 360
 tggttaatat gctgcacata t 381

<210> 28307
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28307

atcttagcct tgggtgataa aggttcaaca agttcctgag aatcagagga aatcaaagga 60
 gaccataatt tanacctaaa agaaagacaa gagattcatc ctctactcca aaatcctatg 120

aatgcaatca acctggacat ctcaggggta attgcccgat cttcatgaaa agaattggaga 180
aatctcgaag gaaaaatttt agtgaaaaan aggtgaagaa ggcatacatc acatgggatg 240
acaatgatat ggaatcatat gaggattcgg aaaatgaaga gataaaactg tgtctaattg 300
ccaanagtta tgaaagtgat gaagaggtaa catcttncaa ataaaactta tccattttctt 360
tttgatgaat ataagatgca tttgctga 388

<210> 28308
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28308

ttgatcattg aatcaangtg gatnncaatt aggttttgat gattgccccca aaaagttcaa 60
gagaaatggg atttcaagat ttggagtcaa ccaaagttca aagaatcaaa gaattaaatt 120
ntcacagggtt tcattgaagn aagaaattca angatnntca aagaanaagt taagatnttt 180
aaagaaattc aagaaagaag aatgaatnn tcaaanattc caaggggaaa gaannatcaa 240
gaaagacctt cataagggga aatnnatntg aaaagattnn ttcaaaaaac aaaccatagc 300
accagtttg tttttcaaaa gaagttttct cannnatttc taagttacca gagtttntac 360
tctctggtta tcgattatca attacctata atcgattacc aatggcaaag tttaatttca 420
naaactttta ctgantntga acgtttcaat gnttttaatg atgtatcgat acatatatgg 480
tatcgatacc cg 492

<210> 28309
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28309

ggatccacgg agaacaactc gcgatgtaga ggctgcanag ttgtgttaaa aaaactgtaa 60
gtntcgctat ttaaaataca agaaatgagg tagaaaaaga ccaggggaaa gagtgctatt 120
aaattatcat accttcacat taagaanata taanacacca atgtttttaa gattaaatat 180
ttatttcctt tttgaatggg atgtgttaga aagatatgaa taatatattc tgatgttata 240

tagttgttat atctattaga tntatcttta atcatatctt tagctattag gtttatcttc 300
 agttttatag ttggtatatc tattagaatt atctntagcc atatctnnta gctatatatc 360
 nnttagctgg aatctngtat ataagcgaat gatgcttaat gaaatattc 409

<210> 28310
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28310

ctttgataat gaaacctaga actggcctaa tctggctggg tgtgaggaga aaccaaagaa 60
 cttcttcttc tggaaggcct ctiganatct taggatcaga caaccaaaga atatcatagg 120
 ggtagttcaa caaaaaccag aanattaaac ttaaattttg actaggcact ttagtgagct 180
 aggctgggct tagtgccgct tantaaattn tactcatggg ctaagtgcag cagactcgcg 240
 cttagcctaa agacacagaa aatatntttc tgcagattag gcctagtgcg gcatgctgng 300
 cttagcctaa gtctacaatn ntcanaacag aaaaggggtt gggcttagcg cagcatgggtg 360
 cgcttagctt atgccttacc aaatgaccct tatgcttagc gtagcanggc acgctttagc 420
 tcaacctcat gaaacataac tacggn 446

<210> 28311
 <211> 531
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28311

naattatttt aaaancattg cagttactgc cactatanaa tactcaagcc tggccattan 60
 aaataggggt tggaagttct tcattccaat tcctcttttt gtaaaatgga tcattttcaa 120
 ggtccaacgc cttatatga tcacctotta agtaaaaaaa agagtcgctg gataaccaag 180
 aactacgtag gtctgatttc ctcatogcat ttgaggatac gtaggagaaa aacccccgct 240
 tttgtcgacc accccaagag attcgtaatg gtccaatgcc ttaacgtntc tctcctttca 300
 naacaagag atcggttaatg gcccaacgcc ttaacgtttc tcccctttca aatcaaaaaga 360
 ccgtttaatg gttcaacacc ttanatgacc ttntgttcaa taaaaacata ttntgcanaa 420

aaagataaaa caactttacc aaacactttg ttccgaaaga ctacgtangt ctgatttcct 480
caccgcanat tgaggaatac gtangagcaa agggaaacac ccttgtcgac n 531

<210> 28312
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28312

agttgattct gcattccaca tanatagccg gatcttgagc actgaggagg agcagattat 60
ttttccggca gaaaccacgg gggaggagta aggaactctc ccttaccatt ggatgacaat 120
ggcactcact gaagtatatt gcatgcaaaa atatgggtcc tacctgacca ctatgacgtg 180
gggtactgact aactcttaat aataatgctt ttccgacacc atttaaactc tcgccatggg 240
gcttggaata acgttatctc tgggaaacct gcatagcctg acacacatag cacaggggaa 300
atccatgtat aagaatgggtg gcgaccatgc cccattatgt gcagggcccc g 351

<210> 28313
<211> 564
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28313

gccgcagagc acgtgaaccg agaccgctag cgaaaaaaca tgactaaaca taatantnac 60
nnnannacac annnnnnnaa gacggaacga ccctagacaa caccgnnnan nnannnnnnc 120
gcnngggtnn nnnnnngnnn gnnggaagga agganaanat ttttttanga nngaaaangg 180
aaanaaagag gggggggaag aaaaaagggn aaaagaagaa aaannngaga agnaaaaaag 240
aagaaagaaa gagnnnganga aaaggaanna agagaaaaag gagaaaagag aaggganaaa 300
agggngaagg gaaagaaaaa ggaaggaaga aagggggagn gangggaaaa aaggaaagga 360
gagagangaa agagaaanga gnganganaa ggagaagaaa aagaggggaag anggaagaaa 420
aaaagagagg aaaagannan gggaggagga aaaaaaaaaa aggagagnaa gagagggaga 480
gggagaaaaa nggaagggga naanggaaaa aggagggaga aggagaaacg agagannggg 540
gaaaaaanaa aaaaaaagag gagn 564

<210> 28314
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 28314

aaaatggagg gctgtgtatt aatatcttac tcattcacat tcgtaaatat attcattatg 60
 aatttaataa taatgcacta gtgtaaaatt atatatctac atgtaattac aaatagcatg 120
 acaacataac ttataagcta cttattataa aaattaataa gcttattata tgataatttg 180
 tgattaaagc taatactgca tagtcttttt ttttcttctc tagttatata atccttaaca 240
 catcctatat tatttcgcta gtaatgtaac agttatttat ttatttcctg ctaatccatt 300
 ttgcatttta taatgtaaca cgttgcttcc tttcogcttg tcctgtattt tcttcattat 360
 caaaaagaaa agtatat 377

<210> 28315
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28315

naatggccag gtgacgagta tcaagnactn atnanagccg cgctcaantt tacactttcc 60
 agagggccca nggctctctt tggtttgaaa ancaagaaan nccacgggga gaaattaggg 120
 gacacatgca tgncaaccc tgataagtca tcgtgtcagg gatattttcc ttcaaaatta 180
 taaatcctta gacctagggt ngcctctggt ctgacttcca aacgggatgg gtaaaaattg 240
 gatatactat attcactgct tataactgtg tctgtgtatg aagtttaagt cgagctgtta 300
 gctaaactgg taaattaaag atttgtagtg tgcattgactt ctaagctgat gcacagtgca 360
 agtactctct ctctctcgga tgcogaagat nggtcatgtc cacttgtaat acacactcta 420
 tctttcgaat attgctcaca aatttccttt tcaattcaag aattaagtat cacaatagat 480
 atctatgtac agaataacaa at 502

<210> 28316
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 28316

acgagcctcn gcctagn gat ntcgngaat anancnaggt acccgccggt cctntctata 60
cagtctgcct gcatgcgtgc aagctggtaa tgattgccgn angtgtcgca ncgcccgcgg 120
gtgtatcana tatgcanata aactctctct tgaatggagt ccgtcatgtg tgtctatgat 180
gattcgcttc acgttgctat tgagaaatga taacgactac tctactgtgc gtattacaag 240
aggagaaagc acttgaatgc tctgtgcttg tggtaggccg acttatagat tagtactatg 300
gagcccagct caacaagata aaccatatgc gtacacagct ttcgaaaacc ttgtgcaaca 360
tatgcgtatt gcagcaggct gcatagcct tagaatcaag ttcatcacat atgtggctga 420
gcattcgaag ctagtctctc agttatcatt caaatgacct tcgttatttg tcttgccact 480
taaaaacctc ttanggatag tcgcn 505

<210> 28317
<211> 236
<212> DNA
<213> Glycine max

<400> 28317

agcaatacca ttaacacgaa actgttgtga ttcaagcata gaccgagtga gtgcgccaat 60
ggcagcgcgt ggctagatat ctgctgccaa ctactatcat cttgatggcg ccacgaaaca 120
gatccaaaat cactccttgc gatgccacaa gttcgctatc atgaggcggg agcgattcag 180
tggcgcttac cttgcgaccc gtcgaatac gtgctcctaa gacgaaccat ggctct 236

<210> 28318
<211> 291
<212> DNA
<213> Glycine max

<400> 28318

agcttggttat tatattaaat tagcacccaa ctataatgcg taagatgtca aaaatattaa 60
tctaaataaa ggctaagatg tatcagctaa actacaaggc ttcacagga aagagtacat 120
acgagctctt gtcaaactgt cttaatactc caatgtcggg aatatcacca gaaaagaaat 180
tgggtgacaa gtttctaaca catggaatga gggtcagcac atactggaat tatcactatc 240

attatgccac ggacgcttag gccatattga cttacataat ttgcaaattgt g

291

<210> 28319
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28319

atcattgctt catctctatt attgagttct gtctttcttg ataccagtgc tangggcaag 60
ctcattcaaa tcaatgaagc gtctctttcc tgtgctgctc tcaacttcct cctgaccagg 120
actacttaag ttttcaggag gctggttggtg ttcattctct tctactgcan gatatgtaac 180
agggtcatct actatcattt cttgttcttc attatcactg tcactctgaat cttcactatc 240
catcatgtat tcaccattct cattgggatc tgagtgatca gctgatgaat tagacttctc 300
agatttgata aactctgttt ctgattctga tacctcacat tgtcggtaag ttatacgatn 360
tttagttgcc ctcttactac gtcttatacc cgattgtatc tcaccacag acctgagttt 420
ggttctctcc ttgtcgacca tgcactgcaa ctgttg 456

<210> 28320
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28320

agctttatth tttctccctc aaactccttt taattatata agaatatatt nttgtgaaaa 60
agtatattat taataatata taacaataaa tatattttnt atagtacaaa taaaattaaa 120
caatatatac tagttagtat ataatgatgt cgcaacctac ccttttgagg gcgagcgagg 180
cgaggctctc gggagcggtt tccaaaggag aaaaatgtgc ggagtcgcca ccaacgttta 240
tttgtgaaaa acgtcgaaa aactgaagga aaccggtcat aaagaatatt ccaagttcgg 300
ga 302

<210> 28321
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28321

gcctgtntgg agtagaaacc catgggacca actcattnnt atntcttaat gtgaagtcgn 60
natctagtca aggggtctgag agaccatacn aagtttccta acgattttcta attatgtggg 120
ccattaagtc tatcatatgc tgacaatagt cgagaagccc atgaatctct tcggggggcgg 180
agtaggtgtc tgccatcgcc ttggccttgg ctaacaatcg gtgaagttct tgactcccgt 240
tcaaagtaag agcaaatcgg tccgtccaca tggttgcctc ttgggtgtaaa gagttgatca 300
cccttcctct agcctctttt tccgctata cttgggcata ttcgtccgca atcctatgct 360
cgtggggccgc ggctagacct aactcttctt gtaccttgcg atgatatgta gcatgttggt 420
ctccccgctcg cataaacgct gagacaagct tcttttggac cttgaacagg caactaact 479

<210> 28322
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28322

agcttttatt tcatgatgac taatagaatt tcgtatggc ctcgactacc tgtgttttat 60
gagttcatgc caagtttatg gggtatacaa tactcaagtc ctaggactat tccgttggtta 120
agaatgtaat aagtaatatt tttaaaattt tgaaattata attacaatta aatntataat 180
gtatttatag tgtcttcaat cgtcactatt tataatntaaa tttaatggtc attcatgggtg 240
tgaaagtcaa cttgagaatt ctgatatgaa tatcaattct caagaacact ataaatacat 300
ttaattntta attgattgtg aatttttaaaa ctacttacac ggataatttc atgtaggcgt 360
tcttttattt ggtggattga taccatcaa catttgatat ccgcccattg 409

<210> 28323
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28323

tgagttgcat atcaatcttg ccaaagagat actcgttttt ggtctgattc cccgagccan 60
aggctttgtc aagggaaga gtgagaagat cgccgttggt gagtatcttg gcacgaccat 120

ctccccaagt tacgtcanaa tcctggtaga agttgccagc agaggctgcg atggaagagg 180
ccaatacaaa tacataaagg acagtttttg ttgaaaatgt aatggaatga agagaagcca 240
tgattggttt gaatganatg tagaaagagg aagttaaaaa tgtagtagct tggtagaagt 300
aatgaaatgt gagagaagaa ggaagggatg agtgtggcgg agaggtanga tntgtactat 360
ttatagatgt gtggaagctg ctatgactat cagggttacg cgtaggacaa tggttagtgt 420
gtctggaaga gttggaacaa acattaaaat attaac 456

<210> 28324
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28324

ccgcgacct tgagtcacct gcggcatgca agctttggtt gttttggtgt tccagttcca 60
gtagagcca tgtccatgtc ctttctcttt acctntacca tcatcatcag ctttggcttg 120
tgcattcttt atgcatctgc agaactccag agattatcac actcttccaa acatgatggg 180
gctcttagct tcttggtgct tggtgactgg ggaagaagag gcgcttacia ccaatcacia 240
gtttctttcc aggtttgctt ttatgttatg tcattcatgc aaatatataa tatgtgaaaa 300
ctgaaaactt gtattcctgc acattaattc atgtagatt ctttatataa ntcattttca 360
tttgagtc 368

<210> 28325
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28325

acgtactgat aaagtatcac ttaccttcgt taagtttttc atatagtact ttgtacgtat 60
ttgaatgtag attgaatcac ctaaaatcat acattgaaac aacaattaat atgaatttaa 120
ataaatgtta gcatatttct cccagggttaa gaaattgatt ctgagtctaa ttatgtttga 180
attacctttg attataaata atttattgta ctcaaaaagt aatttttact taaaagtaat 240
tttaggtaac ttttgtatat gaaaaatttt ataccaaatt tgactataac ttgcttttaa 300

gataaaaata tctaanacct aagttacttc acttcaaaat cattntttat aaaattaatt 360
 ttatttgaat tcaatttcgt agattgatca cgtgtaantt atagtacctc aaacatatat 420
 agtgggatac tctangcagc aaacacaa 448

<210> 28326
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28326

ttgtctattn tcanatntac tgcatacacag cagcggccgc cccagntttc taatagaata 60
 aacaactcta gagtaaataa tttatgttta atccatgggtg gggcctataa cctaagaata 120
 agattattgg aactttctac tctgtacca acttaatcca ttgagcccat gattcagggc 180
 cctaatatct tttggggggg aaaacaattt gggaggcctt gatgaaaaat caatggagat 240
 tcagacgcaa gcctacaatt gtatcaacat ccaagccttt attataaaaa agcttgggta 300
 attatttaag cgatcagtct gcgttcaata ttaacctta tatattagtg tacttgtccc 360
 ctctatagga aatattttca taaactatca ttaaggggct 400

<210> 28327
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28327

ggctgactta cagttatgga gcataccatan gctttctgtt ggtttctgtc tctntnnggn 60
 ngacagattc ttacaagtta atgagtgtgt ggttaaaaaa aattctctta ctatacaaga 120
 gaggaaagta ctatgatgca ttttaatttg cttacaatat tcagacataa cttcattgaa 180
 gatggctccc tactataaag agaaatgaaa agtgggtgtca caattgcctg gtgtcccagt 240
 tacgagttgt tgcttgtctg aagaagaatt atggatagat ttgcatatct tggcaagttg 300
 acctagtatg agcatagtct gggtttatac acagttaatc ttgagtgggt ttagtgtaaa 360
 tataaatcca gggatgctg gatctgtttc cttagttcct atatatgcaa tcccctattc 420
 aggtattgtg taccttttcc cttagttcct atatca 456

<210> 28328
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 28328

tgctttcact gtcataagtt agccatatgt aaagatgcaa agccagttac ccagaggaag 60
 agaaagatgg ggaaagagag gtattatgta gtacaacaag aagtgggtcaa gttaatggcc 120
 gcccaattca tcagagaaat taactactcc acttggcttt ccaacatggt catgggtaag 180
 aaaccaaacg ataagtggag gatgtgtaca gactacacaa atctaaatcg agcatgctcg 240
 aaggatgcat acttactccc aaacatcgac tgactgggtcg atggagtagt cagacacaag 300
 aatgttgagt ttttggatgc ttattccgac tataatcaga gcaacgtatc aacat 355

<210> 28329
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28329

tgcctanaga ggtccaggaa ggacaaggca gctctttgaa ctatttccgc tccggagtat 60
 gacagtcacc gctttatgag cgctgtacac cagcagcgtc tcgaggccat caagggatgg 120
 tcgtttctcc gggagcgacg cgtccagctc anggacgacg agtatactga tttccaggag 180
 aaaatagggc gccggcggtg ggcactactg gttactccca tggccaagtt tgatccagaa 240
 atagtccttg agtnttatgc caatgcttgg ccaacagagg agggcgtgcg tgacatgaga 300
 tcctgnghaa ggggtcagtg gatccccggt gat 333

<210> 28330
 <211> 217
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28330

attcactntg atcatttgtt ttctctctag cacaagtcca agctttcttc tcagtcctaa 60
 atgacatttc aagctagtat taactcactt taacctccat ttaccacaga attcagactt 120

agcctttcca ctctcaaagc ctactcttt gtccactcat aacaccacat tctcactgtc 180
caaccctagg ttaactctat atttcatctc taacagt 217

<210> 28331
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28331

ttataaaatt gatgttattt ttctgacct tcgttgaacc ccgatcacat tggcgcgatc 60
gggaatttaa atgacatctc cttgagtaga atctgaaaca ctctcagtc ctttatgttt 120
tgacaggggt aatngatcct aaatgttggt attaacctta tnttttaa atatactaaa 180
tntccttcaa tttggtatat agaaccttgc gtttggattg acaaacgcga atgagagagg 240
cctctaagcg atgcaaagag gaactgacaa agacctcacg ataggtaagg gggagttaa 300
tataatttat gggcttgata ccataaattg ggtctaggaa tccaattatt agaatgtatg 360

<210> 28332
<211> 269
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28332

tttttgggtt atacttatac attatacaca atatattata taatatatat atatataatg 60
atggatttta gactattact atcaattatt cagcacgcat gccagaaaa cgtaccattg 120
atgttgcttt gataactgtc tcttgcttat agccacanat actctctttg ctcttcaaaa 180
ctttgatatc atagcatcca taaagtgcgt gtcacatcca ccctctcttt tcacgcgtct 240
ctttcttaaa tgttcttcca aacacttct 269

<210> 28333
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28333

ctaggaatga caactctacc agttttttat tttgcattct ttncattgta gtggaaggaa 60
cctactctat tttttcttgt tctataagaa ttctctaaga ttggtggatg ttgtctaata 120
gctgagcagt ttagttgata ttcattttta attgggtgtn ggggaagttg attgaaattc 180
atttcagcac aatggggaan atttgtggng caaanattca aacttghtaag actgtttgag 240
ttaaatatgt ttacataaaa ttagctcttt tctgatacaa taatatattc attgagaaaag 300
agaataatat tacaagaaca ttggaggaca tgggatcttt tgtgaggtaa aagaggaaaa 360
taagcaacaa aaggaaatgt taaaacatga atggagcana actgtccaat ccctctgcat 420
atctctgtta atgaaacact tgtg 444

<210> 28334
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28334

ttgagaagct agagcttntc acacacaccc gtctcataac taagctcacc tcccttgaga 60
aagctcctta agaagatcct aaagaagcta agagctagct acacatacct ctctaatagc 120
taagctcacc tcttgagatg agaagctaga gcttagctac acaccccta ttatagctaa 180
gctcacgccc atgacanaaa acatgaaaat gaaaaacaaa aagggtttat taaaaagaca 240
actcanaatg ccccgata 259

<210> 28335
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28335

cccttctttt gaatatgttt cacatttcct tccaaaacat cgcaaaaccc tacggattgc 60
acgacaattg gtgttaagca gctcatttcg actgacaaga atccaaatat tggcaaacaa 120
tcatccccag acaaaaatta nggtacgaca gccatcatga aaaagggttg ttatgtttgg 180
acgaccattt tcacacctac cttagaattt aatgattaaa aaagaattaa aattgttgat 240
aaattaatga gtttatgaca actaggcagg atcaactnta ctannaggac taactgttat 300

ctacatatat tgtctacgct cgganggaaa catnctgtnt actattaaca ngcgtccaac 360
gcactatnac catangtgtc cactttgtat atnaaaccaa tgtatacatt gagtat 416

<210> 28336
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28336

atttactggt tctttttgct aataatgtaa atataaatgg gataagggtta ttccgtaaaa 60
acctgggtcta tatttacttc taagaatgta aggggtaaaa tgaccatggt cctatggcat 120
agccttatat taattaatan ggtccttgat gatgctccca cagcctaatac anaggctcct 180
gctaagggtgg attgtcgtca aggtacgtca attacataaa acttccactt atatatattt 240
ccttatgtgt ctgtacacta gttgtntaat taatatccaa attcattatg tatntagtgt 300
aatagacaac atggaactac tgaatgcggc tactatgtca tgcaactggat gtccaccatc 360
at 362

<210> 28337
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28337

taataatcaa ctaaataattt cctnttggtta tttttgacag gaaaacaaaa ttcactcctt 60
atatggggaa acaagtggat cttacagga gaaagttggt caatattgag tgggagcatg 120
gagatagggt gaaacagaaa tgtgacttcg atggaagaaa tttgtaagaa ttattttgaa 180
agaatgttgt aattattaag cttttgggtg gaaaattaat ttgctcgta ttgagatcga 240
ttgaagtcca tttggaaaca ctttgaagggt gtgggtgttg tcgacatcac catggcttta 300
tatggtaaag tttgactttg caaaggataa atagataatg gntggaaatg taccatgaat 360
aatctttgat tggtaaccata tagtttgact ttgggggtgta gactntgtcc cctatgatgt 420
gatgatcaat agcatg 436

<210> 28338

<211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28338

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gggatgcctt aacatcgaac ctccagtcct ggatccctag gtcacccgac gctgcaagca 60
tagtttcttt gtttttatta accatgcctt cgggcatata gggtattgac ctttgcacaa 120
tcttataact ctgatcgtga attaagcata ccagattcgt ctcataataat cattttttgt 180
ccttgctaaa attcaagggt gtccattatc acttatggcg taattattaa attttattga 240
aattgcattc cttaggggct ttaatgatgc tgtaattaat gggttttgtg atgaaagcac 300
gtcacttgat cgcactgatg gtcgtgaaga tgtgactata gccataaact catctccaaa 360
caaattgtga actatgtctt ccaaataatt tattttcttg agggatatatg caaatcaata 420
tatgagaatt catggatcaa taattcgtaa agagtttgtg tatattgaat tacaatatca 480
tgatacaatt tgtctggatg atgcn 505

```

<210> 28339
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28339

```

tccttaacct ccattttttt gaggatacga ctcgttgac atgtgctaata atggggggac 60
ccccggggca ttccattgag cattgtaggt cctgaagca taagggtacaa ggtctatttg 120
atgcgggcta ggtgaaattt gaggagaatc gctngtgaat cctgacattg accagcgacg 180
ccatacatgg ggaaattntg aaagttgttg gagatgtctc taatgactca ttangatntt 240
caagtntatg ccattattgt aaaccacang tacaatggct attaacatgg nataaatttg 300
acatccttgt ctctcatcct ctcaacaata catctttgct tatntgactt ccaactggaat 360

```

<210> 28340
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28340

agcttatttt atataaaatn gaagatgctn ttattagact tttagagact gctcacatgt 60
tccatttgga cttgtgtagt gttctctaag cctgcacaa ggcagatatg tcaagtaagc 120
ataaaaaatct aaaaattagc tacaattctc aattaagctc aatcattntc caaagaccaa 180
aactaagtta aggtgagaaa ataaagatca aagagatttc aattgagtta agaagaatag 240
acaaatacta aattacaaat gctcagtcaa agatcataca ggaagagtca agatccgatc 300
ctcattcana gatcttgctt catgtgctct agtgtctggg atagaatcca agaccaatga 360
tgaagctctt acagatgatg actggatca 389

<210> 28341
<211> 446
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28341

aatctcagaa ctgcaaagac atgaccttat gatattttta gtaagaatgt catacaaata 60
tgagttacat tatgaagcat gtcaaaaggg gaaacaaatt aaaaactatt tttcaagcaa 120
aaactttgtt tccatctcaa gaccacttga actattacat attgatttgt ttgcttcaac 180
tagaacaacc tttatcacta gaaggacata aggtctagta gttgtggaca actactcaag 240
atggacatag gttatggtcc ttgctcaaga gaatgagtcc tttgaagtct tctttaaatt 300
ctgtaaaaag gattctaaat gaaaaaggag tatgcattac ttcaatcaga agtgcata 360
gtggagagtt tgaatgaga gctttcgcta ttatgtaaga gaatgaaanc ttcataactt 420
ctctattgct gaacacctca acaaaa 446

<210> 28342
<211> 346
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28342

agcttctctc ttttcttgn taatnattat atnttgagt taagccttgt attttgcata 60
gtttntatga catttgaaca cttagtattt cttttaaata tttgtttagt atgactaaac 120
atgatgatta cttgctcttg gttgtttatg gttatgagtt ttaaacttaa ttactttgat 180

gatatatgat tagtggtatg tactattatt tggttattat gaatgactnt ctggattata 240
 tgacattcta tgaagtatta tctctctaag attgatgaat ggtaaagta tcttgtctga 300
 ttgttctcta ttctcttgta tgaatagtaa tctatgtatg tattat 346

<210> 28343
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28343

catccaagca attcagaatc caaacatcat gttctttctc tttatcaaga aaacagggca 60
 gaggcaaaga actctgcccc aaacacattc caataccaca actntctcta ctcanatacc 120
 cagtaacatt ntctttgttc cgcttcgtta accgttggat cgacccgaaa cttttactgg 180
 aggtccctag tacataggtc tacattntga ccgttgggat cgcctagana atgtccataa 240
 taaaaaatac acaacattnt ctgcacaagc acaattttct gctgcacaaa atntgacagc 300
 tttttgctgc ataaattggg cagatttcga aatccctctt accctcatcc caatttgctt 360
 aaattggatc ctacangtcc tanatcatgt ataaatcana tctaaaccaa agacaagctt 420
 cagaccanag caattcanaa tctaggtatc taacaccct ca 462

<210> 28344
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28344

agcttgtatt tataaagtct catgattgtc acgtgctcat gcaacaattg ttggtcgtgg 60
 ctatatgaga catcttgcca aacaaagtca ggtagcgat aactcgcta tgctntntct 120
 tccatgctat atgtagaaag tcattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180
 cgcaattata ctgtgccaga tggagatgta ttttccccct gctttctttg acatcatgat 240
 tcacttgatt gtgcatctgg tcaaagaagt caaatgttgt ggtcctgttt atctacggtg 300
 gatgtacccg attgagcgat acatgaagat cttaanaggg tatacaaaga atctatatcg 360
 tccagaagca tctat 375

<210> 28345
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28345

actatanata ctcagctaca tggttaatttg attctcctat tttgcttaat ccatatTTTT 60
 gattcttcca tcttaaaata aagatgtggg attcctctat tttttttaa agacccatca 120
 ttatagtccc atatttcaaa atagagaaat ttgttccttc tatttttagaa aactcacaat 180
 tccggtcccc atattttaaa aaatctataa ctttgttttc attttcagtt ttaactacat 240
 tttatttctt acattatagt taattaaatt ttttttatga taccttanat gaatatgtta 300
 ggcccaatgt tcaactatat ctaactgggt aagtggcctg agatagattg agttcttgat 360
 attntcaatc caatccaatt aaacttaatt atagtcgatt atattgcgat ttacctttta 420
 ttctaccaat tggattggat cgcgttggtt attgggttgt acctttaaaa aatgccacc 479

<210> 28346
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28346

agctntttat gtgttgctgt atccaatgaa aactctgggt tctgccttn tatcaagttt 60
 gtccctttta acctgtggaa cataagagaa acaaacacaa ccaaagattt ttagaatttg 120
 taaatctgggt ttgtaaccaa accagccttc aaatggagtt tttttgtgca aaactcttgt 180
 aggtagtcta ttcagcaaaa atactacagt gtttgcagcc tccgccata gctcctttgg 240
 caactccttt tcatgcagca tacaccttgt catctccatg atacttctat cttttctctc 300
 actcacanc atttgttgtg ggatgtaagg tacggtgagt tgggtgctca tgccagcttc 360
 ttcacaanaa ttatcaaana catcattntt gtattccttc ccattgtcag acctttattg 420
 ttgcaacctg caatcac 437

<210> 28347
 <211> 427

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28347

 ctcaactngaa gtggtaaacc aatgcagaat tttgtacttg caaagaaaat taagccttaa 60
 tctgtagaag aaattanggc agcaatgaca gaaacnntct tgaccacttn ntgcttggtc 120
 ataagagcnn cctaatacca tctcaagggc catttattgg cgaaagcctt aatcttgtga 180
 ggtagaaggc taatgaatgc ttctatatct gacttggtca aattatataa caaacaaatt 240
 caatttagaa tctacaaaat cagataaacc aagggattag gtattgtact ttgatacact 300
 gaaacattct gtgggctatg atatatatta ttatctntac ctcaaggatg gtaatcagtc 360
 catattcctt tcgccacgta agcattntct tccacatctg aatcgtcttc tcaatggtaa 420
 agtcctt 427

<210> 28348
 <211> 351
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28348

 agcttgtcat gtgatcttat caatagcatt aggcatagct ntgcactact tctcatcatt 60
 tcttaccatt tctctccga nnacccaaac tntagccttc attntcttct tcttgcata 120
 ggccttcaag gaggaagaga tcgccattnt catcttcttc caagggtccat agtagtgtct 180
 tgagactcct tctctcaaag ctntggtaag aaggaagaga tcaccattnt catcttcttc 240
 caagggtccat agtagtgtct taagactctn tctctcanag ctttggttaag aaacttttaa 300
 atcttttctt ttctactcat ttcttcatca ntttgtgta aaacccttat g 351

<210> 28349
 <211> 323
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28349

 ntgaggattt ggtcttcacc agtgaaagga tcgatgtggg tctgatttat gcaaatttga 60

tcctcctact aggacgactg agaaaactgg ngcaaataaa aagggtgaga aagagggaga 120
aaccatgct gtgactgcca ttcctataca gccaaagtttc ccaccaaccc aacaatgtca 180
ttactcagcc aataaccaac cctctcctta cccaccacct agttatccac aatggccatc 240
cctaaatcaa ccacaaggtc tgtctaccgc acttccaatg acgaagacca ccttttagcac 300
aaaccanaaa aacaccaaca aaa 323

<210> 28350
<211> 318
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28350

agcttgtatt cctangatct tcatcaatgg attccgtttc tttttggaag atgaatggca 60
gcagaatgga gaacgaagag agagaggaga cgccacttca aggagaagat gagtctagaa 120
gaagctcacc accataggag gccatggata agagcttga ggaagaagga gatgaatgaa 180
gggagaggaa gagaatagca cganatttta tgctctaaaa gagctctgaa atctgaagtt 240
taattttcaa attatcaaag ttgaaaaaat gcacacacat gacctctatt tatagcctaa 300
gtgtcacaca aaattgga 318

<210> 28351
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28351

tctcatgggt gagtggactt gtctgatgaa acctctactt tatcttgaan gattntatca 60
agttgcatat gatcttttga caaccttttg aaatcttttt gcaagttggt gtaagctttt 120
gaaataacgt atgagnttga tggtaattca tgataagcct ttctaagaga ttcaggggtca 180
tcgagattta ccttatcctc ttgatttgat tcatattctt tagaagttgt gtctaccatt 240
gaacatagat tggcttcttc ttcaccttcg tcagacgagg tgtcatccaa atcttcccag 300
gtgctcataa gacanttttt tattgggtct tgtagtgttt cttcttgtct tatgacttct 360
ccaactctgg gcattcagat ttttaagtgt cagggttctt gcattcatag catattatgg 420

agcttttgct ntatatnttt atccttgagt act 453

<210> 28352
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28352

agcttttcat atgggtaaaa ggctcacatt cattttcttc tacatcatat ttaaacttgt 60
 ccaaataaat aataaagtca tctcgacaca cagaaggcca tctaagtttc atacaattaa 120
 tatagaacct atatcctaata gtcacatcct atcagagcgt ggtgttccog tgtcctctag 180
 catgagggttc ttcatagtca tccacctatt catctgctcc cccaaacaca aagttcaaga 240
 tcatcacagg atccaaacac aaatagcaaa ctgggagtgga gttatcacat ttctaactac 300
 tagagagaaa caacacaaca tatagtagcc aaatacaatt tacttagcat atctcacatt 360
 atntcatcac tttgtcattc atcaatcaca ctnttcatcc atcagtcaca cctttcaatc 420
 atcaatcaca atac 434

<210> 28353
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28353

tactaagctt gcaactgaaa actcatctga naattatata tttactttac tgatcgatga 60
 ctttcttaat attctagtct atgtatatcc ttgtagctct ttcaagtttc ataagattac 120
 atanaagtta aaactcctat tttttatatt ttaatgggtt taaaatatta caataacact 180
 ctntatcatt ctattttttc tattntaatt atttgaaaat attatattat atcctctatc 240
 tatectgtgc ccttaacacc agaggatggt cttatatattt tttatataat cacgtatttt 300
 ttttatcttg atttggttaat tgtgcaaacc aaataaaatc atgactttga gttgtacaat 360
 anatcaagaa gcaataacaa ttccatcaat cagcagataa attccctagt gcaataaatc 420
 attccttgta aactatactg anacacacta acaaatacca 460

<210> 28354

<211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28354

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agcttgtatg attatggtgt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaaagc gcacataaac ccaccatccc ctgttgccca 120
cctccaacag agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccgag 180
tccccatcaa tccttccaag ctttcacaac atccaagtta tacaacattt aaacagcaca 240
agctatcaca gtcaagcaaa acagagcaga ggcagaanac tctgcccana acaccaacca 300
aaaatcacag cttttctcac ttaaagacct cagtaacaat tccttcgatc caattcctta 360
accgttggga tcgactcaan attttactgg aagtctatag tgcataagcc tacattgtga 420
ccgttggatc tact 434
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<210> 28355
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28355

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agctccttga ctttttgggtg ctaacccttg tcataggtcc tccaagtcct tctaaagggt 60
ccttgccctt tttccttgcc ttgtcctcat cactatctca gtataaaaat ntatctacaa 120
tcatgggcat catgtaacct cgaaaagtca aattgaacac cagcccaaaa tttgaagttt 180
gggacgctaa ccacccctt gctatttcaa actgtcaaaa tgagtatgca atgttgtttg 240
tcgtataatg tgggtcttggt tccatgttat tccaaataat attttcaatt aattatgctt 300
tcatcatttg cagtcacaac togacaacct atgtgatata ttggatgctg atggatgata 360
atttgaagtt cgaagtaagc ctacatgtag atattatatt cggccatcta tccacataca 420
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<210> 28356
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 28356

tgccaagatt	tcagtgaggaga	gtcagaaaata	cttcaaagac	atgggatcaa	ttctctgaat	60
cgagtcgggt	ggacacattt	tttgaggctc	caataaaatt	ctgatcttgg	aggaattgag	120
cttcaatctg	accattttca	gcaccttgaa	tggttgtgca	agattcttca	tgattatgga	180
ggtctttaac	aggaagctca	gattgtgagt	tcagcaaaga	tacgtcattc	tgagataaag	240
caactcagat	tttcaaattc	tatataaaaa	tcttatcagc	ttttcatctg	aatatgggat	300
agatgcctgg	gatttcaa					318

<210> 28357
 <211> 213
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28357

atgcatgttt	tactatgaaa	caaacaataa	ataaatacaa	ttcttatant	aaaaaagatg	60
taattgtaca	aggtacaaac	catatacaaa	acttgtgaac	cacacaccta	ctgtcactta	120
ctggtattaa	atttgtcaca	caaaaaaaaa	ttttcttata	ataaataacg	ctatatatta	180
ttgaatattt	taaaataata	aagaaacaaa	ata			213

<210> 28358
 <211> 536
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28358

gataaagacc	acatctatcg	agacagaact	aagactacac	ccaccaatna	aaaactataa	60
acactaacna	cngagggggt	gaatcgatgc	actgcnngnn	accnagcan	ngnncngng	120
gagccngnag	aggagaccgg	caggagaggg	agacgacgaa	ttttgtatct	ttgagtgctn	180
ngacagccat	atatcgccgg	gtgcgacggc	cgcagcggca	cacgatcgca	accccgaaca	240
ctatcgaaga	atcccgaac	cagcaacctt	cgttaccga	aatggcccag	aacaagagca	300
tcttagcaca	cccagcacac	aaactccgga	acaaccgaac	cataactgca	caccgatgat	360
cgaacaacaa	agccaagagg	atcaaggaaa	aagggaacg	acactacgac	tccaaacaca	420
accaccggca	taagaaaata	tctgactgaa	tataaggata	tctatacatc	cggacgtgaa	480

caaaaaaacc attgaaccaa aaatgaaaca atccaatcaa ggcaagaaaa ataaan 536

<210> 28359
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 28359

tactcacaag ccacaggagt gggatcaga gtatctatca acccttgacc ctaacctagt 60
 cttattccca aaagctcaag aatctaattg tgagattatt taaacccta ccccttagcc 120
 ttcacgctct ttagcctttc cttctcaaag ctctcaactc tcacccaaac cggcttcacc 180
 acccttgagc ataaaataag ttgttgcatg ggagaaagtt aagaagaagt ccttggaac 240
 aacaatgaag aagggaaagc tggataacct ttggagaaca aggaggcctt cgagatggac 300
 gacatcattc tatc 314

<210> 28360
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28360

cagcaacaca caccgaaaag caagacacat agcatagatn acacnacanc naacaaannn 60
 nnnaacggat gatgatgnga ccgcccanaa aaaagancng cgancannan ancgacnngg 120
 aggaagacaa gcanacngta ttattaaaac acagcaacga accacaccgg gggcgactat 180
 caacgaccgg accccagcac aaatacttta ccagaaaaaa ccagaagaaa agcatcaca 240
 caaaaacacg ccaaacgcca ggccactaag agccaaagac acccacaaga acaacaaaac 300
 ccacgacagc ggaccacact cgactcttac aaccaaagcc tacaccaagg accgcccaca 360
 cgccaaatta aacgaaagcg cacacgcca gaaacaagag gcaagaaaga cacaaccgac 420
 cccgaagcca aacgcaccca acgctacaaa caccgggacg gaccccatat gaacgcacca 480
 accacggcac caccacgaag aaacaaggcc aca 513

<210> 28361
 <211> 200
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28361

tctataagcc ctcacggctc ggagtgttat caataaggct ccttacgata ntacacatat 60
 caggatgaat actttattct attgtggccc aaatggagta tcctgtctcc catattatct 120
 gagatagtaa tgtatgcgct aactatgggtg tagaattact ctattatggt ggaagataaa 180
 ctttgaattt ggatgagggtg 200

<210> 28362
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 28362

ctcaccacac tttttggatg aggcttccat ggatagtgtt gccttctcta cactttcttc 60
 cttttccacc gataatgtaa agctacaaca atgagctctc caatgtttga tataagtttt 120
 gtaagaccac tcttaattcg aacaagtggc ctaaagggtg aaatgcacag tccttccaag 180
 cgagcaactc ataggtgtaa caccatctta gaatttcgta tgagcatctt cattgacaat 240
 ggaagacttg aacgaaaatg gctggccttg tcctcattgt tctgggaata gataacgata 300
 tatataatga acaccatgta tgaaggatgg aaatactcca attattgtat cccacggtaa 360
 gacttgtagt cacactaatc aatgact 387

<210> 28363
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28363

aaagttgatc cgaagacact cgcaaaanac ggncannnaa ntnnagncaa ngctgcngag 60
 gancctatan agncggcctg cagcgtgca agctttatct tcttctactg cacaaggctc 120
 ttaataagtg aggagtttat tgaggaaacc tctacctga ctgaagacac tcgacataat 180
 actgtatctt actcctcttg tggacaaagt atgacaagct gggggcgagt acatattctt 240
 cccatcagac cttggatgca actgagaatg ttttcccatc tcacttagat cttgatgggt 300
 attcaagcca tgcttccact tgccctgaat gtaaagggtg gttccaatca cactcgcaca 360

tacattgtaa tctacttgca taaatcaata caatgtctta catctagatc agaccagact 420
gatgatcaaa gacattggac cctttcttcc ataggagagg ctaactttat tcttacttat 480
gggctatccc aatacagact acaagcgttg aagccggttg gattctctgc aaaccagcg 539

<210> 28364
<211> 232
<212> DNA
<213> Glycine max

<400> 28364

ctgagtaagc tcgaataacg tccccttatg atcatcataa caggttggag caaaacacga 60
ttccagaggt tgcaacattg tggaccatga gctgattaac acgccgcgaa acatccattg 120
aaaccagctg agtgcagggc actccatgta taaggaagtc acgtagcagt tactcctgta 180
gagcgaacct caagcaagaa tagaacctga cataattgta taatatagaa at 232

<210> 28365
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28365

agcttctctt atgtcatggt tatttccagt ttctgagaa tatctaagaa tcttgcttat 60
gtgccatcat tttcttctat tttctatacc cttttagcac catgttaatt actaattgggt 120
cttaattgtc aattaattac gcagttttat tatttgggct catttagcta attagatggt 180
tttaatctaa tttcaggaat taatgaaaca ttggacttaa tccggatttt ggttgtggac 240
ttgaagaggg caaataaagc aacactaacc ttagttaatc tctaattagg aaatttccca 300
attttatttt attgtgggta gtgtatattc cgttatgngc cacagtattg taatacgctt 360
aatgactttg agtgactctt tttaaat 387

<210> 28366
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28366

tccatcactc tcacttagga aaactaggta gcaagtgttt agtgtcctct gttgtgcaca 60
ggcaagtccg cccatggtga tcagcttgag tcacaaggga tttccaaacc gaatgacata 120
cccctaagta caggtatttt ccttcatgaa aaactacaag tacttactga aaaagtttat 180
actatgtcca tacaatatga agtatgaaac atgggcacca tcaatgtact gatcatggat 240
aattaaagat tctaagccat cccccactag agatgcttaa aactctntaa ccaactctatt 300
tctcccacca gggatatcca acttggtcac tgcactnccc atgtacatac atagcatata 360
ccatcacaaat aacattatcc acatcaacat catctcatca gtaatcacat tcaacacaca 420
cacatacaca catatgtgta tatatatata tatatatata tatatatata taaa 474

<210> 28367
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28367

agctntatTT ttctaactgg ttatgaaact aatctatgtg ttaactcagg cgaaaacaaa 60
cttacatatc attcattttt ggtcggaggg aataaaattc aataaataag aagtaaaatc 120
tacaaaactt aatgatttct aataaattct atttaataat tgttatctct gttataaaaa 180
aattatagta gtatttgaga gaacatagggc aattttcgat acaactatTT cgataggaag 240
gaataatgac aagataaaatt caatgacaat acttggtata cagagataaa atgacanaca 300
ttttattgaa atatttcgat aaaatgattt ttgacaaact attcgcacgt gaagaaagaa 360
cgcccggaag aaagtaaaat tattaatatt ctcagccata tgg 403

<210> 28368
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28368

ggggaggaca gatatagagt gaaattggag gaaatgcgtt gattatattt caagtggctt 60
cagaaagccc tgtattctca ngctttcata actctcatat tctggagctc ccctatattt 120
gtctcggcgg tcacttttgc tacttcata ttgtaggggtg gtcagctgac tgctgggtgg 180

gtactttctg ctctggctac tctcatgac ctgcaagaac ctttgagga atttccggac 240
 ttggtgtcaa caatggctca gacaaaggtt tctcttgacc gattatctgg tttcctgctg 300
 gacgaggaat tgcaggatga tgcaactatc gtcttgccac aaggcattac taacattgct 360
 atagaaatta aggatggtat ctttctgtgg gac 393

<210> 28369
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28369

ntataatact ttttcaaaag cacagaataa ggcgggggga taacgtatgc caacatcatg 60
 atatcattcg gtagcatata ccttaaggat tacacctgct gtacgaaaca taaattacca 120
 acaggggatt cacatgtaga ccttcagtgt caaaagctca caatcaagggt ataaacacta 180
 ctggtgagag aactgccaat gtcaacgagt acagtatccc ctcaccatac caattacata 240
 gagaaatgcc cactgattac tgctattcat gaaaaatcca gacaagccca ctcatcctga 300
 tttaactata aataggggga gaccaccagc taacccttat gggccaacgc tagcaatagc 360
 acatatatta acg 373

<210> 28370
 <211> 227
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28370

agctagattg cattatttta gnngaaatcg tcaagtgtgc acatgcaatc ttaattctca 60
 acacactctt tggatgagtc ttccaaggat tgtgttgctt tctctaactt atcttccttt 120
 accagcgata aggtaaagct acaaaattga gtctcccaat gtttgatata ngtttcgtaa 180
 gaccatcttt aatttgaaca aatggcttan aggtgtaaat gcacagt 227

<210> 28371
 <211> 193
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28371

ccatcaaggg atggaccttc caccgagaga gacggtaca gctcanggac gacgagtaca 60
 cagattttca tgaggagata gctcggcggc gttggatgtt gctgggtcaag cccatgggtca 120
 attttgatcc ggatatagtt ctcgagtatt acgccaatgc ttgggtaatg ggccagtgga 180
 ttccattcta tgc 193

<210> 28372
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28372

gaactacagc gagacggcaa attaaatacc aagnacaaaa aannacttca caaaacanca 60
 ggannnnnan nnnnnnaagc gagctgatcg agccaatcgn annnccannn nnaannnann 120
 nnnngaancng gngaaaannn aaagaggagg agaaggagg cattcttata gttgngagag 180
 ngaaannana aagggggaga gtgtgaaaga agagaagatt agaaaaaag aatgattagg 240
 gaaaagaaga aaaaaataag aggaggaaaa gaaaaaagag atgagaaaag aagaggggag 300
 tggaagaatg agaaggaaaa aaagaaatga aaagaatgaa atgaataaag aanaaatant 360
 taagagagag aaaagaatan taaaagagga ggaggagaaa ggggaaggaa attaaaaagg 420
 aggaaaagaa tgatagaaaa agatgaagaa gataggggaa aaaggaaata gagggaagaa 480
 aaagagaagg ggaaanagaa gagatgatag agnggataaa aaggatagaa aaagagtgat 540
 gtagaaaaaa aaaagagagt gagcg 565

<210> 28373
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28373

agctatctat cgtcgactt cgnanaacgn gaannatana gtaatagagc tgggagagca 60
 agacaaggag aaagagagga ggnttctgtc cttcngaang aaggcagcga acgagagcac 120

gagtgtctctg ggcataccta ataactacac acactaacc c tgtggaatga aaacagacgg 180
aatcattcta taccaggact gagatcggtc gtttatagac agatatatat tattaacact 240
gcttgattat gctcgcacaa ctaacctaga gctgatcaca aaagcatatg tctctaccgc 300
tacttgatct aaagttgaca ccgcgggtca catgtgccgt gtcgagatct aataatcaca 360
gaaagctcgc ggaacacacc agtattcata ttcgatacgc atgagcggca catcagacca 420
gaagcaccat ccagaggcaa gtaaacaaag cggaaacctcc ctgtatgcnt gtggtgctta 480
tacgacgaag agacctttgt atacattgaa caccg 515

<210> 28374
<211> 328
<212> DNA
<213> Glycine max

<400> 28374

tttctttata tgtgcgggtc tgggagacga aggtcaagtg tgtgcgatat gtgaagatga 60
tggtccaagt acttcggatt tgggtccgacc atgctctcct gatatccagc tgggaaattc 120
gcgagtggag gaacgcctcg gcatttacgc aacaagcata atgcagacct ttacggtttt 180
aatagctcta tagttgggac aaatggactg tatggtttga cggagcgtca aacattctat 240
gtcatggcgt tggggcagtg atgatctctt cggacaatct atgtgtacct ttcacagcca 300
ggctaggatt cgactgcacc aacagcat 328

<210> 28375
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28375

ngactttgcg ctaaagtga tttatacatg antttcgttt tttttgatcc aattcgggca 60
aaaggggatg agggcaatag ggattttcaa ctctgcctaa tttgtgcagc aaaaagctgt 120
caaattttgt gcatcagaat ttggctcttg tgcataaaat gtttgtgtat tgctggttgt 180
ggaaagggta ttacatattg gggtctggac atttctaata gatcccagcg gtcaaaatgt 240
agatttatgt actanggatc tccagtaaaa ttttcaagtc gatccaacgg tctacgaatc 300
ggaacgaaga aaatgttact gcgggtattta agtatagaaa gctgtcgtat tggaatgtga 360

tttgggcaaa gattttctgcc tatgcctgt tctcttcggt ttggatcaat tatgatgtta 420
ca 422

<210> 28376
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28376

tttaaaattg cacatatata tggtaacagt ttttgttgaa ttttgcataa aataaacata 60
gtttataggg gaaacaggaa gccacacct aaacttctcg cgaaaagtag ggcaagatca 120
ctagcatgat gaccatgtca gaggatctng cgtaacggat tccccacaca tagaataaaa 180
aagtgacca tcttatgtac caacgtgttt gaagggacag cacagtcca aacatgtaat 240
aataatattc taggcagtca aagtnttcaa acacttttac tctntnttgt ccaaatactt 300
ggatnttcc cgagtccaga cattaacatg gactaccca ttgaaattca gaccgcatgt 360
ntataaaagt ggtctttaat canacctgct aacacaactt ttcttttata tatatatata 420

<210> 28377
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28377

gaaagtctca tttatttaaa cttttgtgtc tcattcagaa gatcgacaac actttaata 60
aaacttggcg gctaatttct taatcatatc caacaacaaa atgtcacttg caactatctg 120
gatctgctan aataataaat aaataaaaga ggacaggaa catcttatct gtgagttccc 180
agcagaatag anaagcccaa cactcattta caaatatgta tgtaattaaa acgattggaa 240
gaaaggaaga tatggacaaa caagaaattt atctagatga gctttcttaa ttattattct 300
ttntacgtta attcttcaaa gctatctctc ttatgataaa ata 343

<210> 28378
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 28378

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agctaaaatg atggcatcgc tannnctnnc aanaananch aagnaccng cgagcgctct 60
atagancgcc cgccggcatg caagcannat tttatcanat taatcggana cagcacaaga 120
gtgggggtgtt gataaagcat aacaagactc ttctgtgatc cgggttaaag gatacacatc 180
tattgtcaga atgaagaaat gcnnntcana acaccattta agaaaaggct agccagatgg 240
agcctaagaa gaaaatgtta taaacctggt taaggatacc aacatganac agtgtatttc 300
atctttacac cataaggcac aaggataaca ataagttcca atgccagaat agcggtcgtc 360
accctactgg ctgaatctca acactatgca agtgtcaatg acgccaatcc ctgtgtagct 420
tccatccctt actttgtgtt cattgatgac atatgggagc ttaattatgt gaaatttaca 480
gtatgtgttt tcaaatgtaa atgcgtcgac agcaacaccc gtgggcgcac cgatgatata 540
ggatttaccg ttagatcta g 561

```

<210> 28379
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28379

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tgcaaaattt ggggggaatg agttggcatg ttagactctt acatggcaga gtgtgcctta 60
cttanttgac ttatctagct accacctttg aatcttgtca aaagtctagt tgaatcctat 120
aaaatatttc ttgggtgggac agcattattc gtgatctatg aatcttggtt ggaatgaggt 180
ctacgagaag ggtgtggggg tttcatgatg acaaactctt cagttcttca tttgctaacc 240
ttttcatgaa tcctttctgc tatagaaaat actgagcaat cactgaattg gagtactccc 300
ctaaagat 308

```

<210> 28380
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28380

gttcagactt agcgcaatag gcgcgctaag cgcacttcca agaattcaaa anatagtaag 60
agattggcgc atagcgcttc ctttcctgct aagcccagct taaaagctca agttacaaaa 120
ttgatctggg gcttacctta ngatagcgcg cttagcgctg ctacaataaa aaattttcca 180
gagaagaagt ggcgcttagc gcatcatcca cgctaagccc actgcttata ggtcaattac 240
agtgaagatg ttgggcttag caaagtgatg tgcgcttagc tgaactattc agccaaccaa 300
tcaggggact ctgcgcatag cgcgag 326

<210> 28381
<211> 295
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28381

taactaaata cattccactc aaatgatgac aacnngcatg acaaaaccat gacattaagg 60
gggaaacaga aaggctgaga agtaacacta ctgcacaaag acattgcagt acagggtatgg 120
gatggatgtc caacaatagc agactatata taattggctt tttaactgct caactctcta 180
tttgaaatat tagctangga ttcataccaa aatattcagt gtcagtgaat gacattttctc 240
ttacacatat gccatatttt cttactacaa acaagaactt tacgtgactg gaaat 295

<210> 28382
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28382

attaacccca ttacgaatca ggtggatttg taaggcttct acggatcaag ttgatctata 60
aaagacttac ggatcaactt gattcataag ccttttacgg atcaatttaa aggtttaccg 120
attaaggata tntcaatttt attttcctta atgtngngta caccaacaat aatactagat 180
acatctaaca acacccgtga aatttcagtg tttaatggac acatattttt atgggtggaa 240
gaacattgat atcaatcatg ctagttgtca gacttcta attagagagaa gaaatgatag 300
gtatgataag aattaccact aataacaaaa agaaaaatgt gaaatgttaa taaaataatt 360
anaataaata antaattgtc tatttttatt cgtatattag tctcatg 407

<210> 28383
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28383

tagtttttggg tatgataata tatcatgtac aaattccaca aagtaatacc ttacctcgaa 60
 ggaggagcca ggggaaaaag gaaatatgca cttattgaca ccattttgag aaagttgcct 120
 catatgctag taagtaaata ttattcataa ttataatatt gaatgtagtg ggtggactta 180
 taaacaaact cccaattcct tataacttta cagctactgg ccgtgtaaac tttcttgcac 240
 tgccatcttt tacgcgaggt gtattaatag agatataana tttcacctta aaatttttaa 300
 acaatatttt catcctttta aaa 323

<210> 28384
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28384

ttttgagcag ctgagnatca ttttcttatt gatcccctac ctgccttttc gttacctcca 60
 tgtctgcttc tctcgaatt gggtactagc tgcttgatta ctatagagca ttaaaccaga 120
 ttctgcttga tggatacaaa gtatgatcat gggtgattga aaatgtgaag atgaaagaag 180
 gcgaaaagaa gactatgaag caggaaagag acagcatacg tctatgtcat ctgaatagca 240
 aaatcttgta ctgcgacttt catctctat 269

<210> 28385
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 28385

agcttgtgtt aataccttcg accaaacacg gccgtgtgac aagagaacct aacgattcct 60
 aattatatgg gccatcaaat ctatcatgtg ttgacagtaa ttgattaagc ccatgaatct 120
 cctcggggcc gtacacactt cggcgtggc ttttgctttg gctaatagac gcgggaggtc 180

ttgacttcca ttcaagggtca aggcgaacct atccatccac atagtcgctt cttgatgcaa 240
 tgcacatcaatc accctccctc ttgcttcttt ctccggcatac acttgtgcaa aatcccttcac 300
 tagctttttgt tcatggggcca tagactgggt caattcttcc ttgtattgcc ctatgatagc 360
 tagcatgc 368

<210> 28386
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28386

tactcagctt gcatgattta cattctcccc tttctcaagc aaattcttaa ttcttcttga 60
 catcatcaaaa atcttcatga tgtacattct ccccttnttt gatgatgaca accacctgta 120
 ggtaggagc aacaaaaaag aaaaaatctc tatttgcata tagtttactc ccccttggtt 180
 ttgcaatgat tgcttatatg agacagttga agatttcata tttttcatat gtaaacaat 240
 tgtctcataa acaatagata atttttctta ctattttatc ttttatcttt ctctccccct 300
 ttgtcaacat caaaaacaaa tcatgaatag agaggagaaa gatgttacca cttggtgcaa 360
 tgtatgagaa tcaagtaata ccaaaggca taaaacaat cattcaatat taatcaagca 420
 aaaacaagta caatta 436

<210> 28387
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28387

agctntatctt ctttttnnta tnactnnnnt atatgggtat atcactctgt attaattttt 60
 ataatttata ccactattta aaataaatat gtccctatag ttactccaac attatttttt 120
 tccctaactt taaaactatt tctatatata agttctgttt gaaaacactt ctgaaccttt 180
 nttggctcctt gtctttgaaa agctttaaca ttggtaatag gcgttgactt tgacgtgcat 240
 gtgtgttata tgttatagtg catatgnttg cactatatct atgttttagtc tatgtaatgg 300
 catanattnt actttttagt ttctacacta aaaaatcata tatttttagtt cttatacaaa 360

tacttttcaat tccatttgga tccataccat ntaagaaaaa cttaatgtng ttagcattga 420
attat 425

<210> 28388
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28388

tataaaactnt gacatattta acttttaaata cgtttgaatt cttttttatg tnaaaanata 60
aaataagaga gtgataatga tttttcgaag tcatgagaca atgtaagaaa aactatacat 120
gcgaatatca tttctcaagt tactattccc canatcatac antttgtaaa ctttanacac 180
tttctgttga tccctttgca natgtaataa gaaaggcaga taacaagttt gaagatatgg 240
caacgattcc atgccaaaat ctgtgggaat gttatgactc agcttttagcc attagcaagt 300
catcatcaac ttatttggcc ttttctttnt ccaaactgaa ttattaatta ttaatacatt 360
acaaaccgta ctntatttta ctaacattta aaaatctaata tatatcttaa ttaatttagc 420
ccggtctcct taaaaatggt atttagaaac tttnttttct aacaataaca 470

<210> 28389
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28389

agcttagatg cagtctcacc aaggcagcaa gcctctagaa gtcttcctta aagaagacgc 60
ctgcatgctg cagtatcttc aagacctttg atcacttgggt aagcgtgcaa ttccattggt 120
ccccatcatt ctgcttccat ggattgggggt ttttggttgg aactctacag cgtcattntt 180
gcgattagat ctgcctggat tatggtttaa taggtaatga gctagaagag tatggagtgc 240
taagtgaatc ggtcaatcat ggatagattt tgtggctcgc atatgccact ggtttgccag 300
atggcgcttg atccttatgc 320

<210> 28390
<211> 404
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28390

agcttcgcta actttttgat cacgcaagaa tgagacgtgg ttttaatatg tttactcctc 60
ccatgtgcca tgagatgcta gactaaatta attgctgatt tgttatcaat caacaacctc 120
ataggactac aatcccttaa gtgcagttct tccattaaag ctttcagtca tagagcttga 180
cacgctgcca tagcagcaac aatatattat gctttacatg ttgacaaaac aactacactc 240
tgcttctttg agcaccaaga gattagtgtt gttccacatt tgaaaacata tncagcattg 300
ctttactatc atgcttatca ctacaccaat ctgaatcatt tataccaaac actgcttctt 360
ttatattctt ctgaccgtaa ggatataaaa tgccaatatc caat 404

<210> 28391

<211> 341

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28391

tcttcttacc tgctgcatgt atgcentata ctcgtgagtt gttactngnn nnaaagctat 60
agcaggtgca gcaatgtgga tattgtgtgg ccnccttgc attgatggaa aaacagcaaa 120
attgatcttt tcttcaatgt catattgatc actatcatgt ccctgactta gaagtatccc 180
tctcttcctt ggctatgtac ccttacgata aaaaattatg cctcaccttg gacctogaag 240
actctagtga gttgtcgaag taacaatgtc acaataatca ataggattca cacactcctg 300
cggagacaac accaccatac tattaagaa ataatgagca t 341

<210> 28392

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28392

agcttctctt gtatgttttc tcaagaaagc ttctcangga agctacctag tctatanata 60
gaagcatgtg taacacttgt tgtaactttg aggaatgaga gtcttgtgag acacaactca 120
nagttcaact tctctccctt tttcctcctt caatttcgtg ctccccctc tctctttctt 180

ttcctccata taagcatcct cttcaagctt cttatccaag gctcatcttg gtggtgaagc 240
 tcctttcttcc atggettatt ccctagtggg tggcgccctct tctcacctct tctcctttgt 300
 cttccgctgc atctccatgg tggaaaatca ccatttaagg acctcattga agctcaa 357

<210> 28393
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28393

acaccaccag gcaacaacca gaaaaaaaca caaaataaac tanncnntna aaaaaagcgg 60
 tgacgctcca cgccacaaan anaaaaagag annngaaang aagaagaaga ggaatttaat 120
 ttaanagaga aaaggggggg ggggaaaaaa aaaanaaana aaaaaaaga gaaaaaagaa 180
 agaagaagag aaagaagaaa gagtaggaga aaaaaaagaa gagagataag agaaggggaa 240
 aaaaagagaa aaagagggan gaggaagaaa gaataaaatg gaaaagagga aaaagaagga 300
 tgagagaaat gagagagaaa ggaagatgga aaaagaaaaa aagaagaaaa aagagaagag 360
 aaggaaaaga gaaaaagaaa agaaagaaaa aaaagagaag agaaagggga aaaagaaaaa 420
 aagaagagaa gaaaaaaga aaagggc 446

<210> 28394
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28394

ttcttcttat ctcaaggctc atcttggtgg tgaagctcct tcttccaagg cttattccct 60
 agtggatggc gccgcctctt acctcttctc ctttgtcttc cgctgcatct ccatggtgga 120
 aaatcaccat taaaggacct cattgaagct caaagatcca gcctccatag aagctccaca 180
 accaagcttc catcaatcta tctctgcgcy tttatcactc attgagcctg cggataaccg 240
 catgtcattg ggcccgcgcg ctctggatga caaaagacgc aacagacgat gttagtctct 300
 gcgtgctatc atgctntgag tcttatagat agcanaagta ttttaaaagt gcgggacaaa 360
 acggttgctg catgtcatt 379

<210> 28395
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28395

tcatcccact tggacgattg agaaaactgg ggtaaatgaa gagggtgaga atgagggaga 60
 agcccacacct gtgactacca ttcttatacg gccaaagtttc ccaccacccc aacaatgtca 120
 ttactcacc c aataacatac cttctcctta ccaccgcga agttatccac aaaggccatc 180
 cctaaatcaa ccacaaagtc tgtctaccgc acttacaatg acgaacatca ccttttagcac 240
 aatccataaa caccaaccaa gaaatgaatt ntgcagcgag aaagcctgta gaattcacc 300
 caattccagt gtctttatac tgacttgctc catgtctanc ttgatattca at 352

<210> 28396
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28396

agctncataa attctctttg ataccagagg atggcatgag cttcaaacag cttgcacccc 60
 atcctctgta gagacccttc agacccttctt ctctaataac ttctgaaagt gccgctgcca 120
 tgtttggcgg gcacttacct tgcaaagcac ccaccatcag gcgcttcctt gctacctgca 180
 aggggaagct aattgtactg gcagtaaaac ctgcgcgagc ataaagaagt cagatagcac 240
 aaatcattta tattaccaag tataaaatgt gattaataag tgacacgctg ctgtgaaaac 300
 catgtccgcc catcaaatag tgaatggcta ttctttcanc aaatatntca tgctatcatt 360
 tgcttcatgc aacatgggtg tgtgact 387

<210> 28397
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28397

ggcgactagc ctagtantac gccatactna aacnnagcct caagggttggc tgatgataga 60
aaggaaccac cttntnccag ttcctttttt tgatggaggg acggnagnatc gtgcggccgc 120
aatTTTggga acctaccccg tgcctccca tgcgtccaag gactttaaaa aaggctacct 180
attgaggggt ggaccaaaaa ggatgagga agtgtcgtaa agtgcagtca ttggcacgac 240
gactcntaag ggcgatgcta tatgttccta tcatagagtg cccaagtctt acattaagta 300
atatgggatg cttggtgagc acttaagcga ctnggttcta ccncttcat agctggctnn 360
tagggaangt tcncangtg catgggtgcc tttcaattta tggtagggac ttggctgtta 420
tgggatgcct aactcccata gcgagtagta tgggatgttc agtggagtcc tgaaacggct 480
tggtttcccc ctgaaagcca acttttaatg gagg 514

<210> 28398
<211> 231
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28398

aaatttgagg aaaaaaaagg aaaaacactg aanagaaaaa gagaagaaga acaaaaatcc 60
aagttgaggc gttgctgaat ccgaccctg attatntcct acatcattta tcttgctagc 120
cttgtaacct gtgcacagtc aagtagtttt cttagattt tatgtaatct atgcaccctt 180
atangtcctn ntgtatataa tatgtgcatn tatcttcttc acatatcggt g 231

<210> 28399
<211> 321
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28399

aggacctcaa ctagggaccc tacaactaat ggtgtgaaca tgtcattgtc cttttatggg 60
tgtgcatggt gtgtgcccat cagtttccca gaattgtttc cagtattgaa tttggtatta 120
ttcttactgt tattcacatt ttctggttta aggccaacca aatcaactgc ttctttggca 180
tcatctgctt tggttaaggcg cagcctcttc ttatgtctga taaaaacggt agtcatatga 240
ttttcatcaa gttccangtc atcatctgat tgcttggaaac tcccactaga cttcgagtcc 300

aattgggtat acatgtacct g

321

<210> 28400
<211> 115
<212> DNA
<213> Glycine max

<400> 28400

aaccccaaag aaacaaacga ccgaaagaaa aaaaccaaac aacagaagga acaaaaccga 60

aaaaccgaca caagaagcgg acagcagcgg gccaaagaga agaaccaaga aacaa 115

<210> 28401
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28401

acatactgna atcgattacc agaggagatt ttcagaaaat attctcaaca gtcacatctt 60

tntgtgtggt tcttgaatgg ctatcaaagg cctatatata tatgtgactt gagacacgaa 120

tatgataaga gtgtttcaga acaacaaagg tcttatcctc ttagaaagaa aaataaattt 180

atcctcttac atattcctta gccaaaactc ttgtgattaa ataaggaatt atttgagtgc 240

tccaattgtt caatctatct ctntatagag agaattcttc ttctcttctt cttcattctg 300

aaaagggtt aagagactga nggtctcttg ttgtgaaaga attctaaaca caa 353

<210> 28402
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28402

agaggactga atccttttagt acgnacacta tnnatactca gcctngcagg attgggtctt 60

tgccagtgaag aggatcgatg tgggtctgaa tanaggcaaa ttaanccatc ctgctgggac 120

gagtgagaaa actggggcaa atgaagaggg ggagaaaaag ggagaacccc atgctgtgac 180

tgcccttctt atccggccaa gtttccaacc aaccacccat gtcattactc acccattaac 240

aaacctcttc cttaccacc gccattatc cacaaggcc atcccctgat caaccacana 300

gcctgtctac cgcactttca atgacgaaga ccaccttttag cacanaccaa aaaacaccaa 360
 caaataggat tttgcagcan anagcctgtn gggtcacccc aattccgggtg catatgctan 420
 cttgatccat atcactcata atcaatgtac catacccaac caagttctca cctcattttt 480
 gagatcactc aaccact 497

<210> 28403
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28403

tcacatccat tcttcttgaa ctgtgtgtaa aattttcctt gctgaaaatg gaaattgaac 60
 tactctacct tgttctgct tcattgacta gcacaatata tctaaacaaa tacattaaac 120
 ttaccttata caaatcttgc tatacttctt cagcagcatn tactttatta gattcaatat 180
 cccaagttac tcatgtacga gatagcaagc ttgaagattc atgatgttga agcgtaagtg 240
 attaaactta accttcaacc tatccacacc at 272

<210> 28404
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28404

aatcaactac taggtgatat aattgattac ttctctctta aaaagtgttt cagaagtgtc 60
 caagaacact ttaatcgatt acttctttga aataatccat tacattgtat atttgattga 120
 ttacaggcgg ttataaatgt tctctctata aatagccacc ttgtgttcta acttttaaca 180
 acttttgtgc gtgctacaac tacgagtnga aattagtcaa acaaagaaga gaagaaaaag 240
 tgcttacata caatgtgact cacaacttct aatctttgat tatgaagatc atcttgtgaa 300
 aagtgaagtg tgaatatctc ttgagttcaa gactgcactc attcattcaa gca 353

<210> 28405
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28405

ggatggacct tatcaggtct tggaaatgat taatattatg cctatangnn ggacctgccg 60
 cgagagtatg gagtcancac cacttttaat atttctgatt taattccttc tgaggtggag 120
 ctgatataga ggaggaggaa ccaacagatt tgacgtcaaa tcctcttcaa gggggagggg 180
 atgatgcaat cctccctatg ataggaccag ttaccagagc catgagcaag atgctccaaa 240
 aggattgggc tagagttgat aaagaacgcc ttacggttct catgaacctt atggtatatt 300
 gttgagccca tggggccactg ttgggtccac tcttctttga aataggagaa taggttgttt 360
 cttatttttg gccttgtatc ttggcattct 390

<210> 28406
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28406

agcttttttt atatttaata ccattacgag aataatatgt tcttatgang ggatctanat 60
 ggtcatgtac ggagaacatc tagaggatat ganggttcat atagggttta cgatctanga 120
 taaggaaatg tanaaggtaa atctatccta gatttcttat tagctcatga cttcacaata 180
 gccaacactt atagcttctt ttggtgttgc tttgtctgct tactgtacta angaaattaa 240
 ttgtgttatt gctggtgctg gctattacaa tacagaactg catgtcatag atgggattcc 300
 acaacttacc tctgttcgct caagctatac tattgaggtt ggggtttatg acttctgcc 360
 tcccttttca cantttaaat cattcggttct cangtaattt attcacttca tggattccct 420
 tctctctcct ttc 433

<210> 28407
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28407

ctagagatgt ngctatggct accgaactac acaagtgaac cccttagagt aagggatgag 60
 ttattcacac ttgngatta gaatcaacat gtgtaacgat ctataaggat caatttgggt 120

tatttttnggg ttgctttatg aaatcaatth ttttctcatg cctttaatca caaatthaact 180
 gtgtttgatg gaccaattga tgttccgatg caaaattatt gtgaaattga tgtgttctat 240
 ttccttattt tgcgcttttag aaatttatat atgattataa tgngtttctt tcttctgtta 300
 tcgtacaata aattgacgta tgatggttta tatcataatt gagacgcttc agttatgtgg 360
 tcaaagaatc tattgattta tatata 386

<210> 28408
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28408

agctaagatg gtctcgaatg gaacgagtca aggggtggaaa gcatgggtttc agaggataaa 60
 tcgaacgctt gtcanagatc aaagagaaag ttgaccgaac agttgagtat aacagaagaa 120
 aatatgttga caatcattga ccagtataag gagaaggtaa acctagctcc tattcttgtg 180
 cagagactat aggacgagca tgcaaaggta tcagctctac aaatggaaag ggaagcaaga 240
 gagagagtga tagaatcatt gcacaaggag cctgtgaaat ggatggatag attcgctctc 300
 actctgtatg ggagtca 317

<210> 28409
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28409

ctcagctgct cagcaagctg cctcatgagg tctccactng ctagatanac ttcgtagcat 60
 antatcaatg ggtggatgat tatcataatg tctacctata gagcataact cgntcagaat 120
 ggtttacaag gtgtttctta cgtgtgagtt gagaagacat ctggatttat tatcatctat 180
 ccattgggtcc ttgtggatct cgttcttcta agcatctaga ggaatgtgat tgcctttttc 240
 tacaacatct cacatatcaa tgtgattgca ctcaaagaag gctatcatct gttccttcca 300
 atagtcatag ttggctccct tgaacatggg attatctgta ataaatcctt cttccatcat 360
 ttcaggaatt tcttttccct tctctatcaa gagcttcacc cagaagccaa gctctgatac 420

caactgaaac acactacgta acgtggttga ataatgtg

458

<210> 28410
<211> 356
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28410

agctattaat ttgtatgtcc gattcaagcg cataatatat cgagacgctc gaaattaacc 60
aacggaagct ctcgagaaat tcaaattggtc ataacttnta actcggatgt ccgattcagg 120
cgcataatat atcgagacgc tcgaaattga acaacggaag ctctcgagaa attcaaattgt 180
tcataacttt tcacacggat gtctgattca cgcgcataat atatcgagac cctcaaaatt 240
taacaacgga agctctcgag aaataccaat ggtcataact tttcactgag atgtccgatt 300
cacgcgcata atacatagag acgctccaaa tcgaacaacg gaagctctcc aaaaat 356

<210> 28411
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28411

ctgactcacc atangacctt gacccattgg gttgattgtc aatccttacc ctcggaagca 60
gagaaaagaa tagaggggaa atttccattc aaagaaaaag agaaggacaa tttccaatga 120
aagcaaaaaa aagaaaagaa agaaaattcc ccaatcaaag agtgtgagaa agcaaaaaaga 180
tnagatagga tattcccaat caaagaatgg gagaaagtaa aaaaggaaga agaagaagga 240
aagaaagctc ctgatcaggg atcgaaggan aacagaaga tatgtgcaga gaggtctttg 300
gaccggacaa tatctgaaca atacagaatt gtca 334

<210> 28412
<211> 150
<212> DNA
<213> Glycine max

<400> 28412

gaaagtattt gaaatttgat atgtaccatg gtgcatgtat aatcctctag gcattggata 60

caaacagga ataacgtgag gacacagcag atcatagaaa gagtgataga tgactgatgt 120
 ttcacaagcc tatattgaaa aaagctaact 150

<210> 28413
 <211> 248
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28413

ctgccataac ctgctctatc gttcccttg cgcaatttct gtagaagaag tgattaatga 60
 aacatctgat aagaacatta tccttgaaat gcgatcttca ttctattatg acaagcataa 120
 ttctttataa ctattgaaga catcaaatnt tgtttggtgt atatgcacaa atttaacaca 180
 caaaaactag ccaactggtga tgctacagat gtaccaggca acaaacataa gttatcacca 240
 ttttttta 248

<210> 28414
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 28414

atcttttggg tggacatctt gacttgctat ccaatctgac attcaccaca gattcttgcc 60
 ttcttctatt ttcagaatgg gaatgcctct aacagctcct ttgtcaatga atttcttcat 120
 gcctcttaag tgcagatgtc caaatctttg atgccatatt ttcgacttca ttttctttgg 180
 agaatataca tgtggaggag taactggctt cttgaggtgt ccaaggtaac agatgtactt 240
 tgatctgctg gcctttctta gaacttcact cttctctttt gcaccaacat ttttgacttt 300
 gtgaagttac attgaatcct tcatcacaca gtgactga 338

<210> 28415
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 28415

ataagcatca gagtattaaa tacaataagc caaactcaca aacaagagat aatcaaacca 60

gattccaaat aactgaaaat gtcaacaacc acaaaacatc caagactgaa gtttaaattc 120
 cacaagataa ataagcaaag tacttagcat aataatgtta attctaagaa actaaaagcc 180
 aaaatacacg gcttataaaa gataaataat cataacctat aatctaagaa gacggagggtg 240
 gtggtggaag atcgaaactc tgacgaatgt atgcgacatc ctcttcaagc tgtgtaagac 300
 gaatgtccat accgcgcaag cgtgaatcta acgagtcgaa gcggtcacca acatacgaac 360
 gaagaccc 368

<210> 28416
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28416

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 ctggagcata tattcttcat aatctatacc ttcttcttga ttgtatcctt ttgcaactaa 120
 tctagcctaa tttctaataa ttatgccatg ttcatctcac ttattcctaa ataccattt 180
 tgttctatg atggggtagt ttttaggttt ctctactagt tccacacat tgtttctttt 240
 aaactgattt agttcttctt gcatagcaat tatccaatga tcctctatta tggcttcatt 300
 tatattttta ggttcaatca gagacaccaa agccatatta ttgcatanat ctttaagaga 360
 atgtctagtt gttacccttt ttgagatata accaataatg t 401

<210> 28417
 <211> 275
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28417

tattacagtc ttcaagggat tgtattacat aacaccgcct cctgctaatt acaactgcat 60
 actaacattt ggggacaaaa ctgcacatgc gctcatttgt attctaaacc atacataaca 120
 actcacgatg aatcttgact acctacacaa taggtgtcat tcatgctttt tcagtttgct 180
 actnaccact gcaatcaagc tatttctttg tgacaaatga ttcaataaag gatataattg 240
 aaatgttctc acatacatgc acatattatt tattt 275

<210> 28418
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28418

gagctatgat tattttatattt ctaacaatgg aaatcatagg acggcactgt tcatggaatt 60
 ataacaagtg aattanaagt ctcatgcgcc aatgtcacat ctatcatagc atttccttaa 120
 gaaagggttaa gcctctccat ctccagcatg atcatcatca tagactggct cacctgacac 180
 aaaatgacat tcaacccaaa cataaacaca caccgggagt gagttatcac atttcatata 240
 aaataactaat aaacanagac ataagcaaat ttcattaagt aaacatttat cacatagttc 300
 aacttaatac agtcctcgtc acttcacat gatatacaatt taagtttact ttgcgatcac 360
 caatcacatt acacatgaat caacatttga cttcaaac 398

<210> 28419
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28419

agaggactga ccttgtagta cnacactata natacacagc ctagncattt ctttaaataa 60
 atntcttgta caacatgaag ttttgncttc atgtctactn ntcacctttt tttgatgagg 120
 aagtgcattt cttctttctt aactaccaat aattgggtcat ctttaataatc ccctacaaac 180
 ccaaaaccca aaaagaaacc ccttataacc ccacatgggtg gacattgtta actttcacca 240
 aacaagatta aaaaatatgt ggtgggtcgg taattaattg aaacttagct gagcagaaat 300
 tgactaacgt aactccaaca tgagttcata atctgaatgt ttgaatgaaa caatctgac 360
 gcagagaggg atagtcttcc tcttgacctt gtgtgagttc tcaagttact acagaaagca 420
 cttgattgga ggtgaatcta acctgaattt aataaataaa taaataaaac tgaatntgaa 480
 gaaacaataa attcgccaga taatattcga aataaatgct tgtg 524

<210> 28420
 <211> 361
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28420

tgctggtaat cgattaccat atatgtgtaa tcgattacac agtgcaaagt ttgaattcaa 60
aatttaatat ctgttgtaaa tcatttttgg ccaactggtaa tcaattacat cctctggtaa 120
tcgattacca gagagtaaatt cttctgaaaa agacttttta acttanattt cttggccaac 180
cttttgctac ttcaattatg aattcccttc ctatttaata taccattcct aagactctag 240
agactgtctt gatcatccat cttgaatatc tntaatctct ttgtcttgaa taaagctntg 300
agaagcatgt gatcctttgg catcatcaaa acattcagct tgatcctttg ctacatggat 360
g 361

<210> 28421

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28421

gggattttct acatagtctt tagtagtttc cttgattaac tacagctcca ctgtccgtat 60
gattaaatnt agttacaacc atagatacct attaggtggt cactactata gntaatatgc 120
tctaataata cttactagt ataaatgtat cctattatgg tcttntatg tctcagcttt 180
ctttaatact ctataacttc aagttggcaa cacaggccag cagccaatta catatggatt 240
agtctttttg acttgtttgg agaatcacgg gtttctctcc acagattgga gcagtttctc 300
atgattaact taacagtttt tcaaggattg aatatgntaa ataacttgca gcagatgaaa 360
cctaacanac ccagaagtga tctatgcaat attccaact 399

<210> 28422

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28422

aaaaactntt taatgcgtat cttgattaag tcttctcttg attcttgaat ctttgagtct 60
tgaatcttga atcttcttga tgaatcttga aatttatctt gaaatcattc tttgggcttt 120

ttgtcatcat ctttgtcatc attaaaaacta cttgaatcaa cttgattcat catcatgaag 180
 cttgcttcta caggtaatat aactacaccc aatgtatgac cgaacgtagc tctgatacca 240
 cagttggtag tttattagat gatagttgat agttgtagag aattgtttta gaagaacgct 300
 atgtcattga tttcttgat gatcaattac aacataccaa tttcctatat ataggctc 358

<210> 28423
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28423

gaacttctct gtaacaaagt cttggagggg gtaaacaaatt cttttattta attcataaga 60
 acctcaccta tattctcaaa ggcataatac aatttcccat catccttttt aaccctctga 120
 ttagatttta cttttggcct ctaagatccc tttgggtgga aaaaagtgtg tttgggcatc 180
 gtgtattagc caatttgcac aagaacattg ttctcactta ttttcgtcct gcaacaagac 240
 atcatcaaga gtatnnttca ccaactatta ttcagctacc acttcgttag tctacatagg 300
 agtttgaagc ttctcaatca ttttcatttc atatcttatt tgnttctcca atctttcata 360
 tntttccttg cccatattat tgaagaattg ttcctathtt aataagattt cctaccacac 420
 tatcattgca acaacaagaa tgcttaataa 450

<210> 28424
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28424

cttatctnca aagtcaactgg aggagctcat attataaaat gacatacaaa catatgagtc 60
 cagctagcta tctnttttaa caatatgaaa cttaagtttt tgtgatggtc ttcaaattac 120
 aacaatgatt attattgttt tttttaacan atctatatnt ttntattaca acgtagctaa 180
 tgtggtttat cttgaattca aatttcta atcaatcttt aggatgtttt agaatttaaa 240
 gatagtaccc aatgttttta agatgtttat tttagaaaat aatgtgttac tttatgttaa 300
 gattatgatt ttctataaaa cagaggttct atganacaaa attaagcatg gaatagaata 360

caaaaattac aacatttaca tgaaatatta

390

<210> 28425
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28425

gaacaacctg cagtnccacat gcgtcgggtg agatacagca gccctggacc accaccagta 60
atgatcgtgt atcttggatc ccaagtaagt agtttcttct tttgatgttc tttttcaaac 120
aaaagcttgt ctaggctccc gtttgggtaca tagttgtaaa caatgaggag ttcacccctc 180
ttcctgcacc acccatgtaa ctgcaccaa attctatgct ntagttgtgc catgcctgtt 240
atttctgaaa caaattctct gattccctgc cttgaatcag gagcaactc 289

<210> 28426
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28426

ttcttatgat catgaaacct ttctccacca agcgagagag taacatcaaa tgattcctca 60
tcctctaaca acatcccaaa atgttcacca atatcagatt cangaacctg tattgtgtnt 120
aactgagaag aatctatgga cgacactaan accgcaatag tgcaatttat cttcaagcaa 180
tcaccccttga gaaaatttga cgtctcaagg tgtctccgtt tgaaaaaccg cgtatagccc 240
ctattacaca acaagtgcac cattgatcac tacctaattgt acaccaacaa aaatggatac 300
cagagctaataaatcatgat gatatccaat catatcacca aat 343

<210> 28427
<211> 188
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28427

gattttcggc catggagttg cagcgaaaga taaaggataa gaggtgagat gaggcgccat 60

ctactagagg ataagccatg anaggagaag cttcaccacc aaaagagtgt cttggataag 120
aagcttacag angaagcttc aatgaaggaa gagaatgaga gagatagagt gatgcaatcc 180
taccocctt 188

<210> 28428
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28428

agcttgttgt acggctggac atgatatatg tcagggttgg gtttagttaa aggataaaaag 60
gggatgtatc atgagatgtn ctgcgggggtt tgacctatgc gggcgccgaa gtgacagcgt 120
gggcatctcc ctcccttactc tntgcaccag ttgctccaat tcttttagca ttggcacttg 180
tggaggaaac gtaatcgaac ttccctcttt tcaaccatac ttcaattctt tcctcggcga 240
atacttggtc cgcgaagctg gacggcatgt aacctaccaa cttctcatag taaaacactg 300
gcaagggtgc taccatcatc gtgatcatct ccctttcgac catgggaggg gccacttggtg 360
ctaccaggtc actccatcgc tgtgcgtatt ctntanaggt ctcaccttcc ttcttgaaca 420
tattctgtag ctga 434

<210> 28429
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28429

gagttcctag cttagcccat aatgttttcc agaagtggta attgtccttag tatctttatc 60
tgacacagtg gtcctatgca aacctaggag tctcacaact tccttgaaga aaagtttgag 120
atgtgagaag catcatctac catgtggcat ggtatgaagt gtgccatctt gctaaactta 180
tccaccacaa caaagataga gtctacancc ttttgggttc taggaagccc aaggacaaag 240
tccatactaa tgtctaccca aggtgtagat gggatgggta aggggtgtgca tagcctatga 300
ggcatcacc tagacttggc ttgtaaacia gccacacatc tagtgcaatg cttatgggca 360
tctttcttta tatgggacca atagaacttt tctttgagta agacaagggt cttgtctatc 420

ccanagtggc ccatgagcca ccctcat

447

<210> 28430
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28430

agcttctaataaagtctcga ggaagcttct tgaggaagcc tcttaatgaa gcttcttgag 60
taagctacat gagttgcctc gataaaaaca ctaccagac ttcgttaacc gttggatctt 120
ctcgaaatgt ggctacagc ttcagaagac aattttccac gatatgaccg ttgggatctt 180
tgcgaaatgt tctgcagcgt gcttgaagct tccattttcg agagcatttc ttatntaacc 240
atatcagcct ttgtattcgt gtagcttagg aaaaacacca tntctttctc tttctttc 298

<210> 28431
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28431

tcagctntgt ccncaatact tcatgtagac ttgtccaata tcttatatta tacctcggat 60
tccctttgga tacaatactg gaaggaattc catgcaactn tactacttcc ttaatataca 120
actccactag cttctccatc ctatactnta tattcactgg aataaaatga gcagatntgg 180
taagtcgatc tactatgacc catacagcat catgtcccca actagtctta agtaaactag 240
atacaaaatc catggatatg ctctcccatt tccattccgg aatttctagt agcttcaatt 300
ctctgatgg tcgctgatgc tcagccttag ccttttgaca tgtcaaacac ctcgctacat 360
attcagctac atctttcttc atgccatgcc accaaaaact tctcttcana tcttggtaca 420
tcttagtcat tctgggatgg aaact 445

<210> 28432
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28432

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tcaaaactaa ttgtcgtttg aatttactca aagcttctgt attcaatttc tggcatctca 120
atatattaag ggactctatc gaacatctga ggaanaagtt attgtcattt gaatntgctt 180
ggagcttctg ttttcaattt cgagcgtctt gatatatgat gggactcaat cggacatccg 240
agttcaaagt tattgtcgat tgtatctgct cagagtttca gtgttcaatt tcatgtatct 300
cgatatacta taagacttaa tcggatttcc gagtaaaatg ttattgtcgc ttgatttgct 360
caaagcttat gtattcatat caagcgtctt gaattattat atgcctgatt agacatctga 420
gtc 423

<210> 28433
<211> 359
<212> DNA
<213> Glycine max

<400> 28433

accacaatag acttttagctc atatatccgt gtgagtcccg taatatatca gaacgctcga 60
gattgaatac agaagctcct accacattaa aacgacaata actttctact cggatgtccg 120
attgggtcac gtaatatatc gagtcgctcg aaactgaata caaaagctga gaacaaattc 180
aagcgacaat gaatttttaa ttggatatcc cattgagtcc cgtattatat caagacgttc 240
gaaattgaat acagaagctg tgagaaaatt ctaacgagaa taacttttac tcggatgttt 300
gattgagtcc cgaaatatat cgagacgctc gaaattaaaa cggaagctcg tacatatcc 359

<210> 28434
<211> 351
<212> DNA
<213> Glycine max

<400> 28434

agctcctttg tgttttttaa tgggtgatttt ccaccatgaa gatgcagcag aagacaaacg 60
agaagacgtg agaggaggcg ccatccacta tggaataagc catggaagaa ggagcttcac 120
caccaagatg agcctcggat aagaagcttg gagagggtgc ttcaatggag gaaaagaaag 180
agggagagaa agagagaggt gggagcacga cattgaaggg aaaaaaatgg agagaagttg 240
aactctgagt tgtgtctcac gagactctca catgcttcta ataatagact aggtagctta 300

cttgagaagc tatcatgaga aaacttcctt gagaagcttt cttgagaaaa c

351

<210> 28435
<211> 330
<212> DNA
<213> Glycine max

<400> 28435

ttcgaggtag ttaccggtg aagatcgaag aacgattttt acgtatgaag aacgtcgaag 60
aacgggcagg acctttgcga aattcctcac ggaaaacgtt acggaaacgt ttcggaagcg 120
cctcggctta gattttcttc acggagacaa ttgttttcag caaattcgat agagagagaa 180
gtgcctaagg ggetgaaccc tattcttctt catttctctc cctatttata gcaaaatagg 240
ggagatgggt gcctcccagc ttgcccaggc gagctcagct cgcccaggcg agccaagttg 300
cttctccag aagcatcaga aactaagtgg 330

<210> 28436
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28436

atcttgtatt attatggngt acccatcacg tgtggtacta ggtggcagtc gggcgatggg 60
gcacaacaag tttttcacat ccacaaagcg cgcataaacc caccatcccc tgttgcccac 120
ctccatccga gtcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttncacaaca tccaagcaaa acaacattca aacagcacia 240
actaccacag ccaagaaaac agggcaaagg cagaaaactc tgctcaaaca ccaacaaaaa 300
tcacagcttt tctcactc 318

<210> 28437
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28437

ttagcacatn acctactctg angcagggtta taacttgtgc tgcaactaac atactactgg 60

aaaatactgg gaatgtcact ggaatttgac tgaattttac tgattttctaa cattggaaac 120
 attataaaaa gaaaaagtat tggataaatt aaaaatctaa aatcaccaag ttggcggaaa 180
 atcatgtcag gaaaaaaatg aaaggaagtg gcttgttggt tgctcaaatt tgtccataat 240
 tggttattta taccatctag tctanattca atgaaaatat gtaaaaagtg tcaaactaag 300
 ttcttgatct atttttagtt tttactctac ttaaccatct agtttcttag cctacttttt 360
 a 361

<210> 28438
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28438

gaggcacgat cgattcgatt gncnccna ncaaanacag caccgagccg ggaacctngg 60
 agacgaagcg gaggagcatc atatgtttat ccgaacaaac accgcggcgg gagacgcgaa 120
 cagccgaaca cactacaagc acccgctgga ggaaggcacc accaccacc ggggccaagc 180
 gaagtgcagc caaacggaac aaaaggcacg agaagacccc cgacccccga gacagaccgg 240
 acaggccccg agccaaaaag ccagccgagc catctaagag gccaaaacc agaacgtagc 300
 cgaaaacacc atacaggccg aaagcggcac cgcgcacaa gaaaacgcca tagaccatca 360
 taacgcacca ngtcagacga gaagagcgag ccagcactg acaacaacac gagcagaccg 420
 cccgaccacc aagaaaccac cggggcgaac ggaacacatc cactctagg acgccattan 480
 tggcgcaat gagaacaggg cggn 504

<210> 28439
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28439

tgcttgat ttgtgtgaca ccctttactc cacacatata tgtactaata ataaaaggaa 60
 taagtatgca nnaattaatt aaatttttaa aacacatnta aataaagcac ttcaaaagag 120
 tgaaagactc acattcactt cactattatc aaataaaaact tgtcagaaac attnttggtt 180

caaaacatca tgtaattaaa gaaaactcat gctccaatgt cacatcaaca ttgtgtccccg 240
acgtttcttca gtacaagggt ccttaaagca attcacctag tcatatgctc ccacgaacac 300
aaagttcaag ataatcacag gatccaaaca canataacac gcggggagtg agttatcaca 360
ttcctaacta atagtgagaa ataagacaac atgtagatat acatatcata taaacgaaat 420
acaacttac 429

<210> 28440
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28440

nctatggagg ttgaatcttg gacctccaag gaggtctttc attggtgatt ttccaccatg 60
gagatgcagc ggagggcaaa ggataaaagg agagggggagg caccatccac agggaattaa 120
gccanggaaa taggagtttc accaccaaga atgtgccttg gataagaacc ctgaaaagga 180
tgctttaatg gagggaaaga aagagagaag gggggagcac gaaattgaag gaatanaaga 240
gggagagaag tggaactttg aagtgtgtct cataagactt tcattcatca nagttacagc 300
atgtgttaca catgcttcta tttatagaca aggtaacttt cttgagaagc ttcttgataa 360
acttccttga gagcttcttt gagaaaactt cttgagagct agagctagct acatacaccc 420
tctaataact aagtcacctc cttgagaagc ttcttgaaag attn 464

<210> 28441
<211> 353
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28441

agcttcgttt cctcttcttt cttcttcttc tttntctctt tcttcttttc tctcaattct 60
ctcaattccc ttagtgctg acccttctaa ccccttaaaa caccttccat catacctatt 120
tataggaaaa tagtcacctt ggggcggttt aagctcacgc caggcgagct gaaccttagc 180
actgaagtaa tgagctcgcc caggagagct gggtgcttac ctaggaggta attccatggc 240
ctangcaagg cagatgctag cctaggcgag ctgggggtcta gaaaaatcaa gaaaaagacc 300

cttttgcccc ttcctttgga tcctttggat tcttgatcaa aacactgagt gat 353

<210> 28442
 <211> 557
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28442

nccgtgaagg gttcagtnnt cccaggttnng tcnnncnatn agnnannaag cngagagaag 60
 gccagnnnag gggcatnnng ggatcatnan ngcgggtttan tatnntgaac tgcannnnngn 120
 tnngattcag tncctntagt agtatctcgg cagtacctat anagggctac atccgagggc 180
 gacgacaaaa tattgtgaat accattatcc acacaatcgt gagaggaaat gtggctaaat 240
 gggaaacaac gacattgtta taatgtatgt gtaatctttt gataagattc ttctagtttt 300
 agctatactt agtcgtcttg cttaagcttg tggtatcaag acaaccagta tgggcttgctc 360
 atgtcaaagc tgtctctatc accttttggt gggatatat atatgtatca tatgaatgctc 420
 ataaagtcag ctagtgagtg aaccagtttc ctccgcacat gatccaaact tcaagtntgc 480
 atgagagctg gttatactgg caccatcata gccgacagta gcctgcggcc caggcactaa 540
 cttaccgcgt togaccg 557

<210> 28443
 <211> 276
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28443

gctcgggtgcg aggcgataca gtagagctga ccgcatgcaa gcaagcttgt gtcacacacg 60
 angectacac actaccttga gcgcccacca taaacgaata acttatcaaa cggctagatt 120
 gatacacggc ctatcacggt gaactgtgct aacgcgctgc catatacact taatctacca 180
 gaggcatect gcgtctctta ccacatatct tgacaaggat acgagctaaa ccctggctgt 240
 acatagccac tatgagacac tggacactcc atagac 276

<210> 28444
 <211> 291

<212> DNA
<213> Glycine max

<400> 28444

tagcttggtt gtttttggtt ctgaacagtg gtggcgcgag aaagtctggt gtaaattgct 60
gaacgctgtg gtaggtttgg tttatagtag aatcctacta tatgctatca aaaagaggat 120
tgctatcgaa tggacagaaa aagcttagct cttttctaag gtgatgattg ctggagagaa 180
gggtctctatt gtcacataat gacatctttt aatcggttgg ggagcctgaa gatcatgtgt 240
atgctgagtg aagtctataa aatcatgaat tattgcttca ttatcacgac t 291

<210> 28445
<211> 308
<212> DNA
<213> Glycine max

<400> 28445

aattatgcac tgtctgaatc tactctttgt aattattggt attaactctt agcagctaata 60
tgggaattgt tactaaacca atatggagat ttctggacga aagatgtggc tggacaacat 120
tgtatggatc atccagtcta gtcccctaaa ctggaacttt gactgctata tcatttttca 180
gttgatatat tgggtggagtg tcaaactacg tctaatacat ggacagtcta gcttatttag 240
ttagttagtc aattcaatca acaatttatg ttgtaaatgg ttttattttc aatgagttct 300
ctaccctt 308

<210> 28446
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28446

agcttcttat ttcaagatca ccagcccaaa caaaattacg aagccagaaa tccacatctt 60
taagaagctt tcatggccaa gaataaatgt ggaaagaatt tatcaccata ccattaatga 120
togagttgat caattgaact ttcccatga aggaagaaaa ggaagttttc taggaataaa 180
tnttagattt gatcttgtcc taggaataaa tggtagagtc aaggcttacc tacgaaaatt 240
gggactccaa ggtaggaaaa agagagggtc cccaccttga aaccaagag ggattcattt 300

ccaacattat gtaaggagtc atggaactgg aaaat

335

<210> 28447
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28447

actaagcttt tgtcgacnca caattttaga ggccttatag cttatattag tctcaaacct 60
gatgagctat cattgcagga gagagtttaa catctgagca tttaggacgg cacaacttat 120
gccagaagtt gtgattagat tectccatga ctacgctagt gggcctttca cttgccaaca 180
aacaaataca tttaaagaca ggtgggcagt caaatgtacc aaagcagctg gggcatgaca 240
atgactaaca tccccaatac ctgcaattat tttatcacat ccaatccaat aattaatatt 300
agcttaaaca tgttttaagc aatgtggcgg atggtggaat atggcagaag gccaaaattc 360
caccatataa gctggtaatt gcggcctatg acgccaccac agcggggtca acatgcgana 420
cctgngtgta aattaaaatt ggatattgca acacagcaga agcaatataa tgaacaccg 479

<210> 28448
<211> 317
<212> DNA
<213> Glycine max

<400> 28448

agccatgatt gattgatatt tttacaata atattttcgg agtaaaacta ttattattaa 60
tatgatctat aatattataa ttatttataa gaaattatca aattatttta gtggctttaa 120
tgattagaat cattttaatt gtttgagata agttaattcc tataaacata tatatgggtt 180
atatgaataa atgtcttctt tttctcttga aggggcttac aacgctttga taacatgtca 240
ttgtgatgtt tgtcgaccag ttttggccac atcttgtggt ttaaaattat cttatatttg 300
aatctttgac attgtaa 317

<210> 28449
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 28449

tcagctatct ttcacgtcgt tctcgtgct gacaacgtct tcgatttcga acttgcacat 60
actggcctcc actcatccnc gtgcgatgaa tcatgtgttt ctaaaatggt ggaaggagac 120
cgctcgtagac tggccagagg tttacgacga cgtctcattc aaagacggcc gtgcaccgtc 180
gttgaactcc gagaagcacc gacgttgaac gcgttttttg tagcagtga aagagattga 240
aaaattgacc atctggctac tattacaagt tacaactacc gaaatgaagt tctattagat 300
ggcttcattt tatggcaatg tttttcttgt tccttaagat aattgtgagc tcaacaaccc 360
attctcaaca catggtgtct atcatggatc acccacttgg tgttcaatga tgc 413

<210> 28450

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28450

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tagtacattc accaattata aaagcatcaa ctctgtcata cggaatgagg gcaacctcat 120
catggtgctc agcattacca aacttgggtc aagtcaggtc agcaacacaa aactcctcct 180
caggtgggtc ttgcaaagga atcttcccca cggattcaac tatagccata tccaaaatgg 240
cacaaaaacc aaaaaacaca aaaaccttcc ttgctatata tacagaacaa tctagaagtc 300
tctccacaaa cactcacatg tccaaaacag ttaaactgtt aagcacataa caaacacccc 360
tgaaacaaca aatacctttg agat 384

<210> 28451

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28451

ttctaccata nagctgagaa ctctacacct ctgtcgcagc caatattaaa cagagatat 60
cagtagttga agatgaacat ccacagtaca tgcaacagta tttgattgcc actgagagaa 120
agagtgagaa aagccctctg ttcctaacct tcagagttga gccaggacca cgccagaaac 180

ttggtttcct ctagcaattt atctccatca aagctaaagc aattaaatac ccaatcattc 240
ctatgacatt atatactcca aactatgaca caccagataa tcttccagat ttctaataatt 300
atttgactca atacgcaagg caatggtgcc agaagtgagt ttccacggag gatggaanaa 360
ctgtacagat accaaagaga gaataccact 390

<210> 28452
<211> 326
<212> DNA
<213> Glycine max

<400> 28452

agccctgtat caaatcaagc ttagagaaat accttgcgcc acccaattca tcgagtaact 60
catcgatcgt cgaaattggg aaccggtctc tcacgggtcaa cgcattcagt gccctgtaat 120
cgacgcagaa cctccatgaa ccatcctgct tcttaaccaa caaaacagga gaggaaaagg 180
ggctagagct gggctgaata aggccctttt gcaacattga atccacctga gactcaatct 240
cctgggttttg gtaatgggga taacgggtatg ggcggacatt gaccggagggt gcttggggaa 300
ggagatgtat gtggtggtcc gtgtca 326

<210> 28453
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28453

ataacaaaca agagtaaaca tataanaact tctgctggtt catttcttca ccatgaatcg 60
aagtcgtcgt gccaaagaagg taaatatact gtctcaaaca tacacattac atgtacataa 120
atatgctgtt acaacctcaa ataaaaattt gatttgatta aatgttttga aatgaagaac 180
atgtaaacaa cattgtatgt ggatttggcc tttatatcc tctaacccc caaaatatct 240
catttcttaa atttctgttt tctgtaaata gatctgtttt tcagcaacaa agacacactn 300
tctaattgat gcaacacana gaaaacaata cagaaacaaa ttcccacccc aagtttgatg 360
aggacaagca agtacaagca aagaaaaaac tttttcgggtt catcaca 407

<210> 28454
<211> 143

<212> DNA
<213> Glycine max

<400> 28454

catgcaactt tgtttattga atagtagatc ttgcacggag aggtcatatc tctttcttca 60
acacgctcta ttgttactct tgaaaagtga gaataagctc tcataacacc ttgttcactt 120
tgagagaaaa aatctaagca ctt 143

<210> 28455
<211> 520
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28455

cggttgctg cgtctacggg ctcccgctann nctccaccat aganaanaaa cccagccgng 60
atacactcta tgcagagtcg gaaatgtatt ctttgactgg acaccgacag agggggggcgt 120
gatatagctg agcgggcatt ggaaatgagg catatgctcc tagtccctag agattctaca 180
cgctcctgat cataatgaca ctacatactt ttcttgggag agagctcatg gtattcaatg 240
tgggtatatt atcttgtcat ggatactttg gacaagccaa tgtctttaga ttgcctgaca 300
ttgcggggca aatcgcacat acactacgtc aagtgcgtgc ccttgaacat gagattcctc 360
cttcagatca ataatcggag acttgagatc gctcctacaa ttctaattgg taccgatgtt 420
atggctgatg cagacggcac aacatgtatc cagcggttaag aatgagtcaa atgttctgac 480
cgtactcgta tacagcagga tgcatacaca tatcacttcg 520

<210> 28456
<211> 255
<212> DNA
<213> Glycine max

<400> 28456

ggttttggct aactcaacat aaccaggga tgtcgtcgag acactttttt ctgcgactgg 60
gggtgggctt cctaattttg tcataagtat gtttccctcc tagtattttc tgtacttctg 120
agatttgagc tcgttaataa cacttgctaa aatgtttatg ctccgtatgg tacggagatc 180
caaagatgct ccccgctcat ttctttttaga gttaagccga ttctgtccat acgtataact 240

taagatgttc ctggc

255

<210> 28457
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28457

gggatttata gagcgacctg cggcatgcaa gctttcttca gatttttagta atgatccact 60
gacctagaat taaaagaact taattccatt aacctatgga attaaaagaa cttaaaggct 120
gagtgttaatt gaaattgtgg caacccaaaag tcacccccaa cagccatcaa gtcagccacc 180
attttgtctc ctataatgct tatgcctang ttgccaatTA tgcccttatt acgacttgaa 240
ctaaacccaaa ctaaagccct cttattgatt gacccaaaac atatttttga tcagccacac 300
ttacaacgat tgagccttta ttagaaaaac taaacactct aaaattga 348

<210> 28458
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28458

atgcgtcacg taaanaccaa ggttatggtg tactagcctt tgatggcact tggcgggaag 60
tgatggggga aatccacatt ccattcaga taagccccta cacttgcaat gcggtgtttc 120
aagtcatgga cataaatccc gcctatagct gcctcttggg gagaccttgg attcatgcgc 180
tgggagtggt cccttcaacg cttcaccaga agttaagtt cgtagctggt ggacttctag 240
tgatatggtc gagtgaagag gatatgttgg tgagatgttc ctcttccgca ccatatgtat 300
aaacaatgga agaatcattg tgaacaactt tcaaatcttt ctaagtggag agatgtgcct 360
ttgtggagat gatcccgcaa ctaccttttc tctcttatgc gaccatagtg ggggcac 417

<210> 28459
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28459

aacagctgtc gcggtantccg atgnacatag caanancnat nananntnccg tgcggngagc 60
 tcgtggatac tctacagtgc gagcaggcag cctttgttct ttgcttaagc ncacgnacaa 120
 acgccggcgg ctgcggtatg attacgttac tctactcctcg ttcacattct ggtaacagga 180
 ctttcaccgc ttgcgcatgc catggattgt tgttgatgca gaatacgcacat ggacacatgc 240
 cgatcaattg acagagcatc ccggatggag aaacaacggc aagaaacgag gctctacatg 300
 tgtcatattg cgacattgct cctctcccca gactcaatgg agagggtata gctattgact 360
 acacggaatc ctgcgaacat agtcatgaat gccttgcgga atgacacaac tgtagatgaa 420
 tgctgaaccg taagaagcgt gggctcttca atgtcactgc gcgattatct ccgtcccaac 480
 acctcgggtgc tacagtcact gccgccc 507

<210> 28460
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28460

gagtगतacg atacctagct angtngtct ngcamnnncc nanananagn aaanaaacgc 60
 tgagggtgag gatgagcctc cctgtatata cttatatggt gtcatatccc aacacgatgt 120
 ggggaataaac caccaaacca ccacctttca cggtgcaact tcatgcgtct cgcatacacg 180
 ctacatctac atctagctac tgtgtctaca ccatataaac agttcttccg actctatgct 240
 ctcacacaag aaggatgtcc accacttata tacttgaatt gtgcatatct ctctctgata 300
 cggaaataaa ctactaaacc agcaatctcg atgggtgtact tcaagccacc ccctaaacga 360
 gcacaactca cgtgttttag cggcgtccca attaagcggc cttcccacaa tccccccca 420
 tgttttaatt actgcccacaa ccaacataaa atactgetta cttacaatct tagtctcaac 480
 tcaagagtta ctcagaaatt ggagtttcta n 511

<210> 28461
 <211> 228
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28461

tcttgcttat cattaattcg agcatctcga tatatgacag gactcatcag acatccgagt 60
 aaaagttatt gtcgctgaat tggctcagag cttcaacatt cgatttcgag cgtctcgata 120
 tatgacggga ctcaatctga catccgagta aaaagttctt gtcgtttgaa tntgctcaga 180
 gcatcaacat tcaatttcga gcatctcgat atgtgacggg actgaatc 228

<210> 28462
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28462

ttcagccact tcanacgana ataacattgt actcgtgatg ttgattgagc accatcgat 60
 atcgagacgc tggatattga aagttgatgc tctgagcaaa ttcaaactac aataaatcat 120
 tcctcggatg tgtgattcac gcccgtcaca tatctagatg ctcgaaattg aatgttgatg 180
 ctctgaacac attcaaacga cactatcggtt ttactcagat gtctgagtga ggcccagagc 240
 atatagagac gctcaacatg gaatgttgaa gctctcagcc aattcaaacg acattaacta 300
 tctgctcgga tgtccgattg agtcccgat agattctaga ctcttgaaat tgaatgtaca 360
 agctctggca aaatacacga ca 382

<210> 28463
 <211> 213
 <212> DNA
 <213> Glycine max
 <400> 28463

agcttggtta ttataacctg ttaacgaaga cgaagaccgt attatgcact agtaatgctc 60
 attcttaatg atagaggat cattcatgta gtatataatc tacttactac aagacttgct 120
 gcaaactctgc aattgaatgg atctatcctt ttcaatctta catctttcag ctggtagtta 180
 ccctaagaga atatgaacta ctgtgtctca att 213

<210> 28464
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28464

tgatcaaagn cacaacaaga atagaattgg ggtgataagg gatttagcat ttacatttaa 60
 cctcttatga ttggtggtga gacaaggaga cattgattaa tgtggaataa agtgggatgg 120
 ggaacatgat aagaaaaaat atttataatc taatggtctt tagcatccta aatcaaattt 180
 gtgccctacc aaccctcta aggagaatat tttaatcacc atgggatgat gatggggatc 240
 gagagtaccc ttatgtggcg attccgcctc tcaagtctgg cttggtgggt ccttatccta 300
 tttgcaatat tatcattcgt gagtgaacaa tttctgacta tccaatcgtg atgaggctga 360
 tgcactaata 370

<210> 28465
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 28465
 ggtgccgcct gaccaccatg aagcccgata ggatggggag tttttttaag gagggggggt 60
 aaaagtcgaa agcaaaaatt tagatagtag agctgggtag atggtagact atgtatagga 120
 ttttacgatg attagataga tatgtctgat ctttgtgttg tatagaatgt actgtaggag 180
 cgagaaaggg gtagatccct tattcagtaa gtgtttgtaa ttttcatttg 230

<210> 28466
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 28466
 agcttctgtt ccattgcaat tcttggtggt gaagctcatt cttccttggc ttattcccta 60
 gtggatggtg tctccctctt cctcttctcc tttgtcttcc gctgcatctc catggtgaaa 120
 aatcaccatt gaaggacctc attgaagctc aaagatccag cctctataga agctccacaa 180
 gcaaagcttc catcaagtgg taatcagagc acaagagctt caagtatgtg ctccctacac 240
 ctccattaat gttttgcttt accttctctt ccattgttgt atcttctttt tttctccatg 300
 tatctctca catgtcttgt gctaatggt ttaacatg 338

<210> 28467
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28467

gtgctgtttt cctgctagct acctattagc atctttcata tatataaaat aaaatgacta 60
 gtccttaatg taatatttgt aatacataaa caaaacatct ctacagccct atcctgaaag 120
 tttaaatcca attatgatgt gacagacaaa tattaaaaat aaaactcaca gtgattcagt 180
 cttcaatcct caaatccttt tgctttgatc aaaggtgaga atcaagttct gaggttaggt 240
 taaaggaaaa gagctttgag aaccacgtaa agcttgaaaa ccacgtaaag cacaatcaac 300
 tgccacaaca aaatgaaacc ccacattaca attcttattg atacttttat atgagtagcc 360
 aagtggacaa aatgacccaa taattngata agaaccttcg gacaatgcca ccgcactgat 420
 taagaactta at 432

<210> 28468
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28468

agcttgtatc tactttccat aaataaaata taaaatagat atttaggttt cctatactgt 60
 atctggaggc aattagcggg cacttacgga agagagagga acattcatca tattgatgca 120
 ttaaatgttg gcatgttatc ttttcctttt ctctgggcca ccaatacaac actttcccct 180
 gtcaaaccgt ctcatTTTTT tgtacctttc ttatttattt taaaaagagt agtttcttat 240
 tctttaaaat tattatgaag tctcctaaaa tattaggatt aatgtaaata ttacaaacac 300
 aacataaaat tcaaaatcat ttatctttta nagattcata atgggtactc attttgattt 360
 aaagaattaa aataatcttt aatcattcaa aatattaaaa atgatac 406

<210> 28469
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28469

acctgtcgca ggggtgggggt ttggctcctc tgctgaccac catacagacc ttngcacttc 60
catgcagcaa cctgaagcaa ttgagcacc tgaagcttat gctgcagata tataacaatag 120
acctnctcaa cctcagcagc aaaaacaacc acagcagagc aattatgacc tttccagcaa 180
cagatacaac cctgcatgga ggaatcacc taacctcaga tgggtgcagcc ctcagcaaca 240
acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac catacattcc 300
tccaccaatc caacaacagc gacga 325

<210> 28470

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28470

ccggtttacg cgatcgtaga tgcaaacc aaanncgggng cagcagggca cgaggggggc 60
ggttgtttac ttacaaaaca acaggggggg cgggggagta tccgcaaacc cagaaaagga 120
gaacccgacg agcgcgcgcg caggacgcga ccccaaagg tcagcgcacg gggaaaacca 180
gcgcgccgga cccgcgcagg cggagcggag cgacgggaac cagagacgga gcacggaaga 240
gcggccacaa gcgcgcgcgc gaggaagcac caccgcaagg gaacgaacta cgcagaagag 300
ggaccaagag cgaagccggg ggcagacacc accatcgaaa cagcgcc 347

<210> 28471

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28471

ccgggatctt agatcacctg cagcatgcag cttgtttaat gaggtccagg aagacaaggc 60
ggccgaatga actagttccg ctctgagta tgacagtcac cgctttaaga gcgctgtaca 120
ccagcagcgc ttcgaggcca tcatgggatg gtcatttctc cgggagcgac gcgtccagct 180
catggatgac gagtatactg atttccanga ggagataggt cgtcggcggt atgcattact 240
ggttaccccc atggcccagt tcgaccaga agtagtcctt gagttttttg ccaatgcttg 300

gccacagacg agggcgtgcg tgacatgagg tcctgtgtga agggtcagtt gatcccgttt 360
 gatgcagatg ctat 374

<210> 28472
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 28472

ggttgcttcc tccagaagaa cagccttctg gagggcccaa gtgggcctgg ttgctatttg 60
 cacccccatt tttactaagt acacccatt gcctttgttt ttgtgattct tttttcgtaa 120
 agttacggaa acttatgaat ttcgtaacga tacttgtttt ctttccgtaa tgttacggaa 180
 ccttgcggtat tacataatca tccccttttt gacttaccga atgttacgga acctcactaa 240
 tcatccctt ttttgatttc cgggtgtgtca cggaacctta cggattgtgc atcaatattt 300
 tctgttgttt ccggcatgta ccggaattta caaattgcct aatgatgggt gccagcacct 360
 cac 363

<210> 28473
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28473

agcttagttg cangtacgaa caggtgctaa gcccatgac gatcgatcat catccggcgt 60
 ccggctcatg acgtgaata agcactctta agaggcatcc tagtatctct aactttgcta 120
 tataattacc tgttgcatatc ttgtacattc tcttgaatta tatcctgaat gtgcctaagt 180
 gtatatgcaa ttataggatt cttaaataat atatataaca atgaaca 227

<210> 28474
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28474

ctaattctaga gatncatgaa aggaccttaa tgtttgatgt ttatgggact aagatgggtca 60

ttgaccagtg gctattctat gatataaccc aattgccaaag cgaaggtgta ccatttgaag 120
 gtgcactgat tgatgattgg aagttgtatt tctctgtaca tgatgcccgc cgattgggtt 180
 gtaccaatca agcagatatg accggaaagc ttcttgccag ttcattagct cttgaaagcc 240
 gcatcctcca ttaccttatt gttcgcatct tgcttccgag atcttcaaac cttgctcacg 300
 tttctgaaga agatctcatt gtcatgtggg cctttcataa aggttcacaa actgattggc 360
 acatctggtt atatat 376

<210> 28475
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28475

ggcatgcaag tcttgcatgt gtgatgnngt gctctacat tataagatta gtgttcattg 60
 gtacatgccc tggctatggg ggcatgatan nctccactat aannaaaaaa ttggtcagta 120
 cgttattaat ttactaacac gtttaaata tagaatcgcg cacttgtagt atacttccct 180
 ccacgtacct ctgcaacata agaagagaca aagcacacat tattttacat taattaaaaa 240
 agttattgat atatgtaatn tttattagac aaaatttgta tcaacggagc cagtcttgac 300
 attaacaatt ttgtacgtta gcaaatgaca attttttaaa 340

<210> 28476
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28476

ctttgagttg canaagtgag agccttcaca agatatagag atatagagag ttggaagaca 60
 agaagatcca gtaatagacg gccctgtctc tgacctgttg tactacatcg gcttttgtgg 120
 accacttccc cgccccatat aatgttaatc ccttttgtta cttctaagtt ccatgtgcta 180
 tgtgctatgt gcaattatta tccgtcttgg attgtaatgc aaaaaatcta tcaaatntag 240
 cactaacggg caaatcatga taagagagga gtttaacttc caatcaccct aatcatgctg 300
 ccacatgatt gtatcacaca gtaatactac ttcgttatag ttaaattatg agagattaat 360

taattattag agtgagtttg atagttcaga aatctttnta tatagcttac tactatacaa 420
aangcattnt tttatanaaa aataccatgt tttaagagaa tatca 465

<210> 28477
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28477

agctttctct attgttcttg atanaagaag agcaagacgg ttaatcatgg tactttgaca 60
tcaagcggta cgtagagtat aaggagtatc cacaaggggc ttctgaccat gacaagagga 120
cattggtgaa gttggcaact agttcctttt taagcagagg tatcctatac aaatganatc 180
atgatatggg cttgctctga tgtgtngaca cttaagaagc cgagcgaatg ctcatggagg 240
taccatgaag ggtccttttg atgcatgcta atgtgcatgt catggctagg aagattctaa 300
ggcagactat aactggctca ccatggaaaa tgact 335

<210> 28478
<211> 475
<212> DNA
<213> Glycine max
<400> 28478

ctcaagcctg cttctacaca acaacccgca agcaccaagg ttattgaata tatattttta 60
gagaatttat acaaaatcgg aataaaagaa ataattacaa aagtgaggaa aataacctat 120
ctaactaaaa tttagatttg aaagacatga gtggggcgact taagtcccca tcaacgatgc 180
cataaacttg ctataatttt ggcaaggata ccaatgtcgt cttacattac agatttataa 240
taaagagatt gtctccatag ggacttgagt tactcaattc cttcggataa aggttatcag 300
ttgggaaaaa ctaaccgatc attgcataga gcacaagatc aacatgagaa acagaggatg 360
cgatccacga tcataactct acagcgcccta ggctccactt tccacttcct tctttcgtct 420
ggtgttgctc acattttttc tatgctttct gatgtctcta tcttcttctt ttgca 475

<210> 28479
<211> 98
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 28479

acttttgtan ctttttaaga acaaagaccg tgggggggac ctagcaacct aacactctta 60
 tgctccctga cattcctaca atatgtgaag aggatgct 98

<210> 28480
 <211> 163
 <212> DNA
 <213> Glycine max

<400> 28480
 tttattttct ttctccaatt tctataaata gggggagaag tgaagtatat aacggttcaa 60
 ccccttatgc acttctctct ctgtccaatt agcttaagaa aattatattc gtgaagaaaa 120
 tccaagccga ggcgcttccg tatcgttttc gtgagtgatt tta 163

<210> 28481
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28481

gaaaccacag gatgttcant atgggtttct agcctacata tgccgacaag agaaggggtca 60
 ccatagatag aaaagaaaga agcctagcac atttacaggg gcagggacca cagatggaaa 120
 ggatccctat ctgccacatt agcaaagtgt ttgtcaacgg cgggtggatg catgaaaatt 180
 angttgttgt gctagacgaa gaaaccaacc aagagcagcc aagttggatg caatcatgct 240
 ccccggtttt cgaattgaag aattggcaga tcatggagtg acccaagatt ttggtgtcac 300
 atccaatgta atccagtagt togaaccata ttgctgggcc tatgctntac ggtctgcttc 360
 ttttgttggg catacctctt tctttaatgt tcccgaant ataaatatac aacccttgtt 420
 tattgatatg ttgcctctca 440

<210> 28482
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28482

agcttgtatt cactttntct tcttttcccg acaattgggt cagttttttt ttttaaaaaa 60
aaatagtctc aactttttta tgatgaaaat aaaattttct ttgttttccg gagaaactca 120
cgtacgtact ctogttatca tctactagaca ccggtcacca atattaatat tgcccctcac 180
caccacttct accggaagtt aagttgttat taacctttac tttcattatc atcaatagct 240
tcgctgctat tgacccctcc cttcactggt ggcataaatt ggctaattag agatcaatcc 300
aagtcaaaga attttttttt aagagccgta cgtgactgaa aataaatact gcttt 355

<210> 28483

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28483

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ttttgtttca ggatatttta aagttcctcc ttttaattaag tgtcgggaag ctattgttag 120
caattgtgaa cgttcatgct tatcacggat tgatcttgta accgtgatta atttgttttc 180
tatgacatnt tgggtcaataa agtatatcac tttttgtgag ttntgtccaa caagatttta 240
taaaactttt gacaaataag aaataggatg cgtattatta gcatgatagc aagtgttgct 300
gtatcatgac tttgccc aaa ttaattacca tcacggaggt ttcttttctt ttactccaat 360
agaagacaat taatgtaatg cataactcaa tacaatgaag ctttaaggcaa ccacacttgt 420
accttacatg tatctgtttc tta 443

<210> 28484

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28484

ggctngtttc ttttattatt ctctgacctt caaatccgga tgtgactcta acacaaatca 60
gaagacttgt tggttggatt gtacaatgac taacactatc attgtacaga tgaataaata 120
atthtagtcc ttacactttt ctctcaagat gagcaaagtg tgttcatagc tttcttgaac 180

tttataagaa tttacatata gatctttcta tagacagaat cttaaataat gagcccttca 240
attcatactt catgtcttca aagtttcttc tatttatat 279

<210> 28485
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28485

cactcaccag gcctcggact agccataagc ancccnganc naggagccgg accccgaggc 60
aacactgagg ccccttggtg ttctattgc ttataaccag attaggccat ctgaacacag 120
ggtccttcca tagaaatcat acacacctat ctcatgagga agtggcgggt ccacagatct 180
gaccagatcc tatctgcctc aatagcggca tgcattttca tcggcgcgcg gatgcctgac 240
aataatgtgg tgggtgctga cgactatacc atggcagagc agacaagatg ctgcaatcat 300
gatctccggg atttgatgga ggaacagaca caacatggtg ttgacaaaaa gtttagcagc 360
acactcgatg caccacagca acctgaacca tataagagtg accantggta caggattgcc 420
tcgctcagtc ccgcatacaca ctatgagcan tgtatccgct atcatacata tacatgccaa 480
tcttatcgat ttgtcacctc gctcactagc aaccg 515

<210> 28486
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28486

ncaagcttta ttactataat ctaaacaatt attcttagca aaatttagta aaatcgaaaa 60
taattntata atcaatatta atcacttgta tttacaaaaa cagtctagcc tagttaatta 120
ggcatgatgc atgaattatg taaactcctt aatatttgcc tttgattntc cacaaataaa 180
aaatacttat aactagaaat gagtgaaca ttgaactaga aatgaatgaa acattgtatg 240
acctcatcca gtggttgaag gagatgaata ttgaaaatgt gattgtcgaa gtagattgct 300
agcgaattgt acaagctngc atacgggaaa aaggatttga gtttgagagc tacatattgc 360
atgaatntgt tatagtacca aacgatacta ttgctcatga 400

<210> 28487
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28487

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 gtaacanatc ttctagactt ggagtgatca catgcagtc tcttgaaccc ttaccactca 120
 ctctatcatt atgctgagac tcaagaaggc caatagggtt agccttctca atgtattctg 180
 aacaaaatcc aatggcttct tctacaatgt acctctcaac aatagatggt tttggatgat 240
 atagattctt tgtataccct tttaagatct tcatgtatcg ctcaaccggg tacatccacc 300
 gcanataaac aggaccacaa catttgatct ctctaaccag atgcacaatc aactgaatct 360
 tgatgtcaaa gaaagcaagg ggaaaatacc tctccaactg gcacaatata attgcagcct 420
 cattntccag ctcatcaaac ttgacaggat caacgactnt gctacttatg gcat 474

<210> 28488
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 28488

ctgcagctgt tttttttttt ctcatctttt aacaagcttt gaacatatac ttggtcttca 60
 ttaactgtct ttgggcttgg cggccacgct caacatagta ctttcgacac ctactatacg 120
 ttgatttcac caatgttggt atgggaatgt tgcgacaatc ctttaagacc ttatttgaac 180
 attcttgaag gttcgttgtc atatggccat atcgacgtcc ttctctatcg taagtcacgc 240
 tcca 244

<210> 28489
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 28489

cctgactcac catataccta gacccagtg tagaatgtct atttttacct tcggaagcga 60
 aacataatag aacggatatt tccactcaaa gataaagaga aggaaaattt ccaatgaatg 120

ctcaagcaag aaccgatgga gaattcccca atcaaagagt gggagaacgc aaaaagacaa 180
gacaggaaat tcctcttcta agaatgggag aaagtacaaa gggaagaaga agaaggatag 240
aaagctcctg atcagggatc gaaggacaaa cagaagaaat gtgcagaatg gtctttggac 300
cgcacaatat gtgaacaata cagaattgac acc 333

<210> 28490
<211> 341
<212> DNA
<213> Glycine max

<400> 28490

gggatcctta gatcacctgc agctgcaagc ttactctttt gtctgtacct atattttgcc 60
tttaattttt aactcttaca attgtttgcc ctttcaattt cttgcccttt ctttaatat 120
tttctttaat tgtctccatt tttatgtttg tgtaaaaatta tttcataatt tatatataag 180
tatttattta ttataaatta taaatttttag ttatataaaa taaacattca ctaaaatact 240
agtaattgat aaatgtacaa cttatattta tagaacaaca tcacatgata tgtgctttaa 300
gctcatagtt aatttgtgac aaagctgacc aataataatg a 341

<210> 28491
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28491

ctcttcacaa tatcgggttca caaggtgggg gactatagac ttcttcataa gcacctcta 60
tcgtagttct tgggtttctta ttctattacc aagatacatc aaatattaac atgtggaatc 120
cttgataggc tcaacaaata tatggtggta acaacaatga ggatgataaa gaaactcaag 180
caagctgcat aatgttacct tgccttcata ttagatcata ctattactat taaatcatat 240
cacaatattg cttgaaaatc attgcccatt ttttagtctt gaaatatatt aagtcttttt 300
tttttctatg cttgcaagta attnttttct ttctaatacgt ggaacaacaa atgctctcta 360
attatttttc tttctcaaga tgataatgta gaaacgtatc agtgcaagga aacta 415

<210> 28492

<211> 197
 <212> DNA
 <213> Glycine max

<400> 28492

tataaatgga cttttacagc aattatttga gaagcctatg gggacattaa tattatcatc 60
 accatcttag ataaaacatc tcatacaaat atggtttctg cactataact caggatattc 120
 acttatttatt gtctccatac aatgcagtta tacaaagtct agttgagctc taaacttatt 180
 gaggaaatta taaggaa 197

<210> 28493
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28493

acttcagct ggagctcata tactctcttg ttcttgctct ggtacgtata attgttcana 60
 aaattgctgt ctggttgttt gtttgcata cctgttttta actggcatgt tcttttcttc 120
 tgtaactgca aaaaaatatt tacttgttga gtggcttcta actntaataa tctttaacaa 180
 tttttaatta aggaatgatg cccattgctg attgcatgaa caaatgaatt ggaatccttc 240
 caatcctttg aataacttct catgctatca tgcagtagga atatagtgc attttattca 300
 tatgccgaca tatataaatt cttgtcccaa tcaagtatgt tattaactta ttatctatta 360
 gtatgaagtt ctggtttgaa tgttacattt catgt 395

<210> 28494
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 28494

agctttcttt attcatgcca ttgcaaggta ccaggaggctc atgctacaga gcctgttagc 60
 gcaatgattt tgccatccaa ctgcgtgtat tattatgaac ataatatgtg agtattgaat 120
 tccatcttaa tatcaattga cattacataa agttatacag catgtatata acttggcact 180
 gggaattcac gtaggtaaca tgagattctt taatatccct tattacaata tgaactctac 240
 actctaatat catattaaaa tttatcttta aaccaatttc attatattat aattatgctt 300

acagaaa

307

<210> 28495
<211> 201
<212> DNA
<213> Glycine max

<400> 28495

cggaggagct taaaccacac actctcgca cctgtgcaca ctttttattc atggccatct 60
gggttaccag actcaccaag gcatctaggt tacctccaag cttcttattc tcggctgata 120
aaaatgaatt cttcgctact gtatgcactc ctctaatac gatatcgatg atattggcac 180
tttattaccg cgagtagaac c 201

<210> 28496
<211> 156
<212> DNA
<213> Glycine max

<400> 28496

agctttatct tgagtggaga gttggaaccc gtgacacgac cactcttctt ttgctcgaac 60
caactcctct cgtgacgata tctgagactc tgatgtcctt gcataaatgg aacgggttac 120
ggtttgctcc ctgcgaacat ctgagttaca acaaga 156

<210> 28497
<211> 327
<212> DNA
<213> Glycine max

<400> 28497

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cagtttgggt gctttactca tggcacgtta ctttgcagag agagagttag gaccccaaac 120
atcttctgca ttgtatcttt agagaagtac atcttgctag tgctgccttg tgctcagagt 180
tgacttttag tgtataattc aaatacaacg ttaatagtag tggacaaaag gaataaagaa 240
tgtcaagaca agacaattca aaattttctc ttgtgtgcta tgacacatat tgcttataga 300
accatggacg ttactttctg aaaaagc 327

<210> 28498
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28498

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ttgtagaatg gctagacatg atacatgtca aggtttgggtt tgtttcaagg ataaaaggga 60
tgccccacat tattttccatg acacaaatgc aaaaaatgat gatttggaaa ttttatgcaa 120
aactgggtcat gcatgcacct atgtggacgc tcaagtgtca aatttttatg gtcatgtgat 180
gctagggctc aagattcatt tctctatatt taaatcaacc caatgtttcc aaaatatgtt 240
cttttatcaa cttgtgcatt catccgagtc catttcgggc gtccggggaa atttcacagc 300
attcactcct cagggtgtaga cacattttcc aaaaattggg tatgatcaat gaatnttttt 360
caaagaaaag ttggaaatca tctcttttca naagcatgtc ggtttttcag ctagacaact 420
taatttttc 428
  
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<210> 28499
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 28499

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tgaagcttgt gaagatgatg aattgctttc ctgaaacccc accttccaat ttctttctgg 120
taaggctctat ggaaagtaca attgttgagt catcgatata cttgatgccg gaccatgaac 180
atgcataaga ttaccaccag aattttactc cagaggggac cacccgattg tgcaagcgga 240
tgcatcatct ccaagctcga tttaggctga aaatgccttt attaggggca attgttaaac 300
tgctgtgata ccctgagaag gtacaagaat acaattttga tgtataccat ttgaaatctc 360
cattggtact tgaaagccg 379
  
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<210> 28500
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28500

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 atgtaaatac ctaatatcta attgattgtg ttttttgtgt tcaatgcttc cttcaatgct 120
 tgatgtttgt atgcttttgg tctgatcatc catttgtgtt cacagttagg tgacttttagc 180
 attgggaaat gtactattgc cttagaactt gattgaagca ggatcaaaac ttagtcttac 240
 atgagggatc tgcgggttaa gttttgggtt taattatgtt gttaccataa tgctgttttag 300
 ttttaagccta gtcttacatg agggatctgc ggacgaagct tangctaaat taggctaaac 360
 tttcataagc tacttgagct gagtctagtc ttacatgaag gatctacnga caaaactcaa 420
 ttttaagttag tctaaaccaa 440

<210> 28501
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 28501
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 aatctgtacc tgtcgcaagg gtctgcggtt tgtgctcttc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gttgcaaata 180
 ttttcaatag acctcctcaa cctcagcagc ataatcaacc acagcagaac aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tggcttagcc 300
 ctcagcaaca acaacaacag cctgctcctt cattccaaaa t 341

<210> 28502
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28502

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 attactaatc ccttttgctg ttagcctgta taatttaaatt ttcatctgtg ttatgatatt 120
 ttocacattt tatgtccttg ttatgcattt aacaaatata aacctaata cccaaaaaaa 180
 aacagtggct cctgaagct agcttagtca taagatgata tcttagtttc ttccagatat 240

aacagttcac cctgataagc aacaacaaaag ccaaaaaagg gttaaactca gaaaatggaa 300
 tacatagaac actagtaaca caaacaaaag tttctgcttc actgtaatta agagggcatc 360
 tttctgacat gcatgctcga gattcttgna ggatgcactt anttattaag gtactatcaa 420
 gaaataatta attaattaag atgtataaat aaa 453

<210> 28503
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28503

cattcttttn gttctgnnnn gnngagncaa caggcattcc ttgtcctgta acccaatgat 60
 tctagtcaag agaaaggaga tggtctttga gtttacgatg atgtgcccaa gcagtgacaa 120
 tggctcttca cattgcaact ttaggggtgtt ggtgcaagtt gaaaatgata ggagtgc aaa 180
 taggagggat gtcatgaatg atgcattggt aaaaatcggt atccttctct tgccctgaga 240
 agcacatctg tcaatcattg aatctgtaga tctttgttgg acaaaagatt tgcaccatac 300
 acatgtgatt ggatgtgtct tccttgtcat actctgaggt ggacgcaaga cgtgagtttt 360
 cacacatgtc ttcgaagtaa aagagcatgc catcattctg atca 404

<210> 28504
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 28504

atctctatat ctttaaagggt tatcatataa gcttttaaga tatctttggt atctctaaac 60
 atcttaataa gaagctaaag tatttatattg tattataaag gttattttat tgagaccgc 120
 atatatcttg gtagactaag atcaatacat gtggtaataa gtttccaagt cttggaaaat 180
 attatactaa tattttattg agttgtataa agatacttac ttggtatgaa aatcatgttt 240
 cttatagctt acaagaataa tatttcggct ataattacat ctgttaatgg ctcaagctaa 300
 ataattgaac tttga 315

<210> 28505
 <211> 371

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28505

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acagtttttt tttttggtgc aaccgcgggg atcgtgaaac taagggcggc ccacggctgg 120
actgcccgga caccacacag tggtcgagca aggcacgggc gacacctcgg aggacaagga 180
caggaaagca ggatgacatg tcagagagac ggctaactac aagaattcgt gcggtaatgc 240
ggcgagggaa cgaatacgat gggcggctcg ctctccgagc acagagcttg gcacaagaag 300
acctaacgca acaggtcaa gcaccacggt cccaaggtgc gtgtgggaat gagagcacgg 360
cgaggagccc g 371

<210> 28506
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28506

naaatgacta tctttttact tagattgcaa ncaaaaannc ncgggggatgg aggctacgga 60
gaacagctct tttatattga aaacacccgg gggggctggt atactcaatc catcacgacg 120
gctgaaaaag ataatgactt acaactcgtct aatgccgagc ctgcacctgt tttgatgatg 180
tactatggga ggaggacaat ctcatcttag ggataccacc atatacggta gctctgacgc 240
atagtgtaat aagtagcaac tatggaccac aaaacagagt tcaatagagt atgcctatct 300
cgagaacgcc catggtccaa ccccccgtc aaggtgttcc atcgaccgga gggccgcaat 360
attgactatg tccagttgtc tgtgccacag tctctaagac atacg 405

<210> 28507
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28507

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ctttaataat cattaactag tgcattgtcc cgtgcgggac aaattatgtg tgagaagtac 120
aactttttta tttattttta aaaagtaaatt ttaaaactta agggctctaag tggataagtc 180
atttgtaatt tcgaattgac ttaaatacaat tcaaatagtt ntaatattnng aattgtcaat 240
tggttgagcc attaatttta atattactga ttattgatta catagactca tcgatttana 300
ttgagtaagc atcaatatgc attcttaatc ttengcatca aaagtgataa agttttattga 360
ttagtagacc tcagtaatgt ccattgggtt agtaaaaaaa atgtg 405

<210> 28508
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28508

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tttgagagtg aaatgagaat aagtaaattt ggccanactc tcacctcaca caatctatac 120
atcaatttaa acttgctcaa actgngttta cacctaaaat tccaccgaat caaaatttga 180
ctcctcaaca cccaatttta ccctagaaat ggctctttgt tcactttggt catttgtttt 240
tctctcttgc acagcccaag ctgtctcata agtcctaaat gacatttcaa actaggatta 300
actcactnta acctccaaat accactaaat ccagatttgg ccgtccaact ctcaaaaact 360
cactctttnt ccaactcataa caccatattc tcactttcta accctatgtt aactctaccc 420
ttcatctnct aacagntncc ataagcaatn tcagcacata aacatcac 468

<210> 28509
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28509

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tagtggaatg gagaaggaag aaagattatt ggagacacga attcaaggag aagatgagtc 120
atgaacaagc tcaccaccat aggaagccat ggataatagc ttgaaggtag gagaagatga 180
gtggagggag gaggagagaa tgagcacgan attctatgcc tcaaatgagg tctgaacttt 240

gaagtgtaat tctcaaata tcaaagttga aatatattgc acacataaga cctctattat 300
 tggctaagtg tcacacaaat gggagggaca ttgaatttta cttgatttga attgaattgg 360
 ggagccaatt tggagccaaa tttcactaat ttgttaatga 400

<210> 28510
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28510

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 agaagttcaa gtccatagcc atcaaagtct gaaaagagta tgatgaacta agggacgtca 120
 atatggccac cgctgatgcc ttggaacgag aaaccaagaa ggcccaaaaag gaagaacacg 180
 tgccagcaaa gttttgaggg gctntatagg gcagcaatag taagctcaag ctccgaagag 240
 gtgaaaggaa tcatcacggg tcaaaggcat gatcttgaag gacgagctaa aggcttacct 300
 taggtcgaag agaaatttgt cccaacagtt aagcgagact gaaggggaata tgtggggccat 360
 catcgatgag tgcaaagaga agctaaatct agcggcgact cacgagcaaa ggctagagga 420
 tgagtacgcc aagatatcag ca 442

<210> 28511
 <211> 213
 <212> DNA
 <213> Glycine max
 <400> 28511

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 ggatgtgaat tgtggcatta ggcagcatag taaaatctct attccagtga tttggtgata 120
 cctatgaagc acctacaccg acgaggacac caaacacgac tcggacacgt gaacacctgt 180
 gatgtgcaaa atatataacg ttgtacgggt gtc 213

<210> 28512
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 28512

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aaggaganaa aaaggtatct ccacgcaata gacaatagga gagattaaca aatggtatca 120
tcacaagtca aggctaaaag attcaaactt ttaatagtat tatggaaaga tcgagcatag 180
aacaagaag atagttatat gagaggcaca tatacaaaat ttttttcagt aaaagtcaaa 240
gatatttgac attacagttg tcaccaatta catcattgaa ctggatgaaa ttccacaagc 300
caagaatggt cagattagta ggtaaggaaa cctaaggcag tattgagtat acattgtaaa 360
tggtttggat tattggatat tagtggaacc ttattacgaa tattacaaat tgtactcact 420
taggtacaaa tntcagctnt ttagtagtat agtcaaagaa tactac 466

<210> 28513

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28513

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gaacttactt ggatggtgta aaaatgatac ttcaaagtcg aaaatgcaca aagagagtat 180
agatgcaaaa tgtgcaaatt tttggagaga tagaatgcag aggcaagggt tctataatct 240
gacaaatgtg agtghtaactg gctgtacact cacttaagca gttnttggat acc 293

<210> 28514

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28514

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ccatagagct ccgcgaaatt tggtccggcc atactcttcc ttgcgagccc tcttgggtctc 120
ttgttcgagg gctcttgag taattgcatt ctcttcccg aaccggcgc actcctcccg 180
aacgtgtgta gcagccaact tgaacttctc cttggcgagt ttgcctttc ctaactcgct 240

tttgagagct tggacttctt cgtcctcttc cggtgcttca naattntctt cgtgacgac 300
 ttttaacttg gcgagccaat ctaaactcg t 331

<210> 28515
 <211> 241
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28515

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 taggttggac ctcccagaag agtatggagt cagcaccact tttaacatta ctgatttaat 120
 tccttttgca ggtggagctg atattgagga ggaggaacta acagatttga ggtcaaata 180
 tcttcaaggg gaaggggatg atgcaatcct ccctangaag ggaccagtca ctagagccat 240
 g 241

<210> 28516
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 28516

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 cgatgatcgt gtccctttcc atcattgggg gtaccacttg ggccgccaga tccctccacc 120
 ttttgggcgt gttctttgaa agatccgtcc ccctttatgc aaatgttctg tagttgcac 180
 ctatccagaa ccatatcaaa attgtactaa tactgcctaa caaaggcaac cattaggtcc 240
 ttccaagaat ggactcggga aggttccaag ttagtgatcc aggttacagc taccocagta 300
 agactttcat ggaaggaatg tatcaacaat tctcatctt ttgcgtattc ccccatcttc 360
 tgacaatata tcttta 376

<210> 28517
 <211> 314
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28517

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 cttgattgct tgaccttgaa ttaatctttg aagcaatctc tgtttgctta accttgaatg 120
 tttgttgaag caatcttggg ttattatact tttggcatca tcaaaacctg tattcataca 180
 ttaacagata gttcctcaaa ggaagactcc aaagaacact ctaatgatga tgaaaataaa 240
 cgaaacaagg attggaaaac cgataatgcc tacctaacct gtgaagacaa tgcgtcaata 300
 tctattttact cttc 314

<210> 28518
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28518

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 atgcttcggt gatgagcctt gaacaagaca ttgctgcttt taattttattc gngagcgcaa 120
 ggcacaggga cgtgtcaagg acaaagtctt acctataact tacttcaata ttaattattt 180
 atctttatat tagtgccctc agttgtccca cgaaaaagac catcatatct acaaagatct 240
 ccaactacag ctactaatct cagtaaaata atttcccaac gcttttttct ttaataatgc 300
 gctcttgac atgctaattc atagcctatt ttctaactgt tcaatccacc ttctagtaca 360
 tcacatttgg ccctttttct aaataatcat gacttgctta atgactattg agttctcact 420
 caacatcttc tcaatcttta agcccttcac ttactactca atgatatctc tacaccata 480
 gtattcatgc taacatcaac acccgtnat ctacatcttt agaach 526

<210> 28519
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28519

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 tggagtctga agacgaattc acattctcat cctttcttgg gcagggaata tctgtgaagt 120
 tcaacttcaag agatgaacta ttgaatttaa agttgcatc aagttcccta agttctttgc 180

tttgcacaac agaggcttta ctactacttg caggccacgt ggatatattg tcagcatttc 240
 ctccccctgac ccagactttg aattaggatt ggctgcaatt acatcaacag gttgacattt 300
 ggatacaggg ggccttgaca ggaccatt 328

<210> 28520
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28520

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 atcctctgag tcgactgcag catgaagttt cttttttcca atcaactgaa tgagaacatt 120
 gctcagtctt ttcctaatg aagagagaaa gatgtcttca acgttaaagt ttgagtataa 180
 ccagcttatt tgctcatttt gcataagcac taatactttt tttatttctt ttatgaagag 240
 ttggtgatgg atctaattag tagattaaac aaatttgtgg tategccatg tcatattcgt 300
 tgaggcgttg ctctgtttta tttttgaatc taacaacatg tttgtgtctg atttggatgc 360
 ttaagaagtt gttgttaaaa gtctgccatc tgatttgact tatccataga atatctgtcc 420
 tgттаattca tttttctaат gcctattaat caggтactat ctccgtgacc gttggcg 477

<210> 28521
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28521

agaaactcag cttgtgagtt atgcttgagg agaggтcntg ttgaaagctt agttattgat 60
 tnttggaag atggtgtatg ggatcttctt aaatattgcg gattccatta gaaacatcat 120
 tattctagtc ccttaattat ggggaagatc acattatttg gaggccttct taaatgggta 180
 ctctctcttt gaaagattct tatctttttt tggtttctag atcaaatgag gttagttggg 240
 ctaaactaat tttcaataat tntatccctc ctttagaatt gttttctct agcatgctct 300
 ttataccaag ctccaacag acgaaaactt gaagaaaaga tgtataacaa ttgttttcaa 360
 tgtgttctaa ttgttgcaat agcgacgagt caacataaca cttgttgtct taatttaagt 420

tttgaaatac aataaatcac actagaaggg gggatgaata

459

<210> 28522
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28522

agcttctttt gtgttgaaac aatagcagcc cactttgaaa agggacagtg gcaatacaaa 60
tcatttgcac cttgtggaac taattttaag ctatgtaagc taaaataaac cattagcatg 120
tgtgcgtatg atatcttcat agattagggt ggtgaccttt attttgcacg atttggcaat 180
gtctcactat aagttgtaga tcatccatta attaaaagga ctgaaaggat aagatgcact 240
anataattat ctttaagtcac ccatgatttg tcattcatat aatgtttcta tttttttttt 300
ttaaacaag ctgttgactt ttcttatctc caataaattt atatgaaaat taccatgagt 360
tattaaa 367

<210> 28523
<211> 442
<212> DNA
<213> Glycine max

<400> 28523

tatcaaatac aatatactta aatattaaaa aactcaagta gttaccatat tcaagccaca 60
gagaatatcc tatgtacaac cattaaattt caacaatcaa gtatgaccaa agaaatatcc 120
cacacaaagg tataactttg caataatgat aataatatca tgcaaggaaa tgcatacttg 180
actccatgaa aattttcacc accacatgag ctgttacgga taaagatcaa gctagctggg 240
ttcgaggacc atggcctcca tagaagagaa gagaagacga aatatgtagg caaggggtat 300
tttcattcat gattctgggt tattttacata cttatttata ctatcctcta ataacagaat 360
tcttatcttt gtgtgcaaga ggaatatcac agaatacaatt ccgttaagct tgtccctgc 420
tctaacagca tcatcacaca at 442

<210> 28524
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 28524

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 ggagcatgaa attgaacttt gagttgtgtc tcacaagact cccattcatc anagttacaa 120
 caagtgttac acatgcttct atttatagac taggtagctt ccttgagaag ctttcttgag 180
 aaaacttcct tgagaagctn tcttgagaaa acttccttga gaagcttctt tgagaaaaca 240
 acacacactc atctaaaaac taaactcacc tccttgagaa gctagagctt agctacacat 300
 acccctctta taactaagct caccttcgtg agaagagaaa ctagagctta gctacacacc 360
 cctattatag cttagctcac cccatgacaa aatacatgga aatacaa 407

<210> 28525
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28525

gacacaagat actaagcttg aggattatgg ngtacccatc acatgtggta ctatgtgttg 60
 gncggggcgaa ggtgcacaac aagtttccca catccacaat gcgcgcataa acccaccatc 120
 ccctgttgcc cacctccaac tgagctcacg tactcccacg tagcccatat cctcgtttct 180
 ctcaacaccg ggtcccatc aatcctccca agtttccaca acatccaagc aaaacaacat 240
 tcaaacagca taagctatca cagccaagca aaacagagca aaggcagaaa actctgctca 300
 acacatcaac caaaatcaca gctgtttctca cttaaagacc acagtaacaa ttcttttgat 360
 ccaattcgtt aaccgttgga tcgactccaa aattntactg gaagtctata gtgcataagc 420
 ctacantttg accgttgga tctactagca aacatccaaa actcattctg tactactctt 480

<210> 28526
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 28526

tcttttttga gacaaggac tacaatagca ggggtttctg tagaatggcc ataaaccatg 60
 atatgacaca tatctctctc gtctatgtac gatgaaataa ccactttgga tcttattagg 120

aggatctagg agcaattcta tcaaaagagc gcagttatct aatagtatct cttaaaaaca 180
ataacgagaa ttattgagcc atatgacgat atccagattg cggtagctag tctttataag 240

<210> 28527
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28527

cgctngnnn ggtagtcatg aacgtacngc atagcanact cangaacata gaaccccacg 60
cttcaaacct aaacgctgga actcatatca acaatttcat ttgtctccca agcatgcaca 120
gcgaagcgag gtgcatggac atcatcccg catcaaacgg atcagattac acatatgacc 180
tctcaaatag aagatgtatc aatgaagttg aagaacttct agtacgtgca agaaaagtat 240
atacgaatgc cttgtcttaa gtaggatgta atacgggaca cggaatctga gctgacatgc 300
ggacaaacag actccatata ttcataaact agacatactc taaagctctg aaccaccgag 360
tttctcgcat tgaggagacc taactacgag agtctgcacg ggtgttttac gtgaatgctc 420
ctcgcagaac acctgcaaag cacatatctc tacgacaaat tcaccacaga gaccactacc 480
gagacaaatg agatatatag 500

<210> 28528
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28528

agcttggttg tcccgatagt atgtataata ttttctttca tctcctttca tcctatccta 60
taagttggta ttaattaatt agttggtata gttgtctctt cttagtgtat aatgacgaca 120
aagaaanttg aatctaaaac tttgtgtaaa ttatccaaac cttcactatg ccaaccttag 180
taggttgatg ttgttggtgt gtgtgatata caagagctaa cttggaggat aagtttttgt 240
tggaactgat gttgaaagaa gggaagaaaa ggtttaataa tgggggtgtt tcataatcta 300
tatttacttg ctgcaccata tgaagaaatt ggtctttcac aaaattatct attatct 357

<210> 28529
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28529

gagaccaatt cagagacaag agaataagac tgatcaaaag ggctaacaaa gaagccaatt 60
 gcaatctacc aaccctaaaa agctgtacct ctttaatttc tgtacttaac gaccccatgg 120
 ccagggatat aacgttttct tgctttattc ttcattntat cggagaaaaa gcagaggtag 180
 taaatgcaaa gtttttattg agagccatan aaatttcta acaagcacat agacaactcc 240
 cttttgtttc ctgtgacctt tcttccctc tttntgttac ttactaccat catcaataat 300
 gatagcataa caaatctaaa catctcacat cataataatg gatgaaattt actctcactt 360
 attatcaaat gggaaagcca atatacagaa aaaacacaca aact 404

<210> 28530
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 28530

acattcacgt cttttggaaa gagccgctaa attaagttct cagttaggcg aatgacgtat 60
 gactgcttta ccaatagttg aaactcaatc cggagatgtt tcaacttata ttctactaa 120
 tgtaatttcc attacagatg gccaaatatt cttatctgcc gatctatcca ttgctggaat 180
 cagaccgct attaatgcaa gtattttcgt atacagagtc ggatccgcgg ctcaaattaa 240
 gccatgcaac atgtagctgg ttaattataa ttggaataag cccatttcca gaattagaac 300
 ttctgcccaa tcgcttctga tctcattaag ctctcaaadc attaaccaga tgtcacgatg 360
 gcccaattgc ttaac 375

<210> 28531
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28531

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tgttcggaga gatcgtcata catgattaaa gtgtgacgtt cacggtacat aaaatattca 120
 gccagagctg ctctgtata aggggcgagg tatttgtaat tagctggaga atccgctgtc 180
 tcagctacta caatagtgtt ttccattgct cctctttctt gtaaagtatt caccacttga 240
 gccacagaag atgctttttg accaatagct acataaacac atattacatt gtgtccctgt 300
 tgattgagaa tagtatctgt ggctactgct gttttaccg ttagtctgtc tacaataatt 360
 aattctcggt ggccacgtcc tatggtgatc atcgaatcaa tagcaataag tctgtttaga 420
 gaggtcata tacngaacgt ct 442

<210> 28532
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28532

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 taccgagtga gggagtaggg tagttaacca caaataaggg gttggacatc actacactgt 120
 ataccgaatt gataactgtc agaggggtata atgattgact acgcatacta gagaacctat 180
 actctttagt tagaggaagt aaatgatgga agtatatatg aacgagtata attggagcgg 240
 aacagaacta ttgaaagttg agggattaag tggaagtaga acagtaaaag aggccgaag 299

<210> 28533
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28533

agctntgctt ttattgactc ttcatgtctg gtcaagagaa ccattagaag agttgtgact 60
 cttataaaaa cttaaaacca agttgaataa gtcaaaaact atttgaagag ttacatcttt 120
 tgatttgctt aaaaactatc actagaaatc gattacaaa tcagtgtaat cgattacaca 180
 aagcttttta atgaaagaat gtgactcttc atatttgaat tttgaatatc aacgttcacg 240
 cacactggta atcgattacc aaaacattgt aatcgattac agcattttga aatcaattga 300
 acgtagtaaa ttcacgtgaa aagcttctga aaaccatttt gtactagtag tcgattacaa 360

aatctggtat ctataccaga gagtaaaact ctttggttaac atgttt

406

<210> 28534

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28534

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tttctgagca actccttcaa tgtttctatg agggacttag caacatggag aggagtatga 120

ttgatgctgc caatggtgga gctcttggtg atatgacccc tgttgaggct aggaatttga 180

ttgagaagat gacttccaac tccaacaat tcagtgaag aaatgatgct attgttctta 240

gaggagtcca tgagatggcc acgaattcat cttcatctac tgaaaataaa aagctcgaag 300

gataacttga tgccctgggc aacctggtaa ctcagcttcc cattgaataa aaatctacac 360

ctgttgcaag tgtctgtggt ctatgttctt ttgcagatca ccatacagat ctctgtcctt 420

ctttacagca atctggagtc aatgagcaac ctgaagctta tgctgcaaac atttat 476

<210> 28535

<211> 178

<212> DNA

<213> Glycine max

<400> 28535

cagggcacta ccatgaacgg ctagcggggcc gttttgacaa cggaatgatt gtcggaagtc 60

catccctcac acaggaacgg ggagagaccc ttggctgcct cagagcgccg tagtgcacac 120

tggcccgaat agtaçaccat gtacattatg gaccgagctc gtaaaagccc ttatggtc 178

<210> 28536

<211> 249

<212> DNA

<213> Glycine max

<400> 28536

agcctgaatg gcgaatggcg cctgatgcgg tattatctcc ttacgcatct gtgcggtatt 60

tcacaccgca tatggtgcac tctcagtaca atctgctctg atgccgcata gttaagccag 120

ccccgacacc cgccaacacc cgctgacgcg aaccccttgc ggtcgaagaa atataactac 180
gatattgttg tcataggccg ctgtatcgca gagcttgaca ttcattgata tttctggaca 240
ctatctacg 249

<210> 28537
<211> 484
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28537

nnnaaccgcg gagaactgga ccttgaagna cancangtta atannactcc gacccgggat 60
cctctgagtc gacctgaggc atgcaagctt cctctanang ctgtagcttc tggaggaagc 120
aacctggctc gcctgtgcga gctgagctcg cctgtgagcg ctgnngcggc agcatctccc 180
ctattntgct atatataggg gaggaagtga agaagaaaag gttcagcccc ttatgcactt 240
ctctctcttt cgaatttgct tggacaaatg tttccgtgaa gaaaatctaa ggcgatgcgc 300
tttcgaaacg ctttcctaac gtttgcgta tgaanttcgc aaaaagggtt caccgtctt 360
tcgcggtctc cattcggtct tcatagtctt cgatcttcta cgggtaagaa cctcaaacia 420
cttgtcgatt attctatgac ccnnggtggt ccacattgcy gtcattgaatt catactcgg 480
ttct 484

<210> 28538
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28538

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ccttatacct ccatatattg gttgctttac cttctcttct attgttgatt cttcattttt 120
ctccatgtat ctctcacad gtcttggtgat aaatgttttt aacatgatta tttagagttt 180
ccactgatta aatttgctat agaagctaga tttgattttc tatggttcan atttcttggt 240
cttggtcttg aaccatgaan tttgttgagt ttaggtcctt ttgagttttg tcttggttatt 300
ttttgtggct gaaaccgaaa ccataacatt cttacaaaaa tattaaagta taagacaacc 360

tcaaaaatct agagtgactt gttcacctat tgtagttttg tcatagaagt catgtctagt 420
tatgaaactt gtcacataag aattcttatg tt 452

<210> 28539
<211> 226
<212> DNA
<213> Glycine max

<400> 28539
agcttgattt actcttcaat ggaaaatcaa ctggttagagc taaatgggtg ttaatgaact 60
tttaaagaac gtatagacta tagtggactt caaatcatgc aatcagacga atgcatatac 120
atacatcaaa ctaaatatgt gaatgaactg ttaaagaagc ttaagatgga tgatgcaaag 180
tatatgataa cccctatgca tctaaccaat gtacttggat tggatg 226

<210> 28540
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28540

tagtaccttt tggaagagca acgaattaac gacgacttga ctttgcncga tactccaaaa 60
ggggaggaat taattctatt ttgaattatt atcgtcttag ggtggaaaca ctaagtacaa 120
tgcctgttat acgtttttatc tcacaagagg gtctaagtat tgttatggtg agaaaatttt 180
atgaattgta tacggtaaga ttggatcatg cattcatgca taaactcaca attattggtg 240
ttgtgagcat gcgcgtaagt ctattttacta gtgtgggaag gtcagctgag cgaattcacg 300
tgtgatcaag gtcattgcan acattatgcc atagtagcta ctaccttgat atgcttatcc 360
taacaatgtc actaattact ccataatcag tattgatgtt aatatccctc aatggatatat 420
ggcatgtctt gcatg 435

<210> 28541
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28541

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gcagtcacat ttttcattgg tcttgaatgg ccatcaaggc ctatatatat gtgacttgag 120
agaccttggt atcatgtggg cctttcatac cgggcgtcaa cttgactggg cacacttaat 180
cggatattgc atgcataagg cattgcgatt aaatgggtcca ttgccatata cacaccttgt 240
cactctcttt cttcgnatt ntcaaattct tcttcattct gaaccttatg ttccaatcaa 300
aagatccttt ttaattg 317

<210> 28542
<211> 428
<212> DNA
<213> Glycine max

<400> 28542

atattcatgg gcaggaaaat gatctttgat caagatagtc tagacacaat tgccaacaac 60
aaagtccaca gatcaatgct tctgtcagcc tataattaac ttgtattttt cagtgggaagc 120
tatcaattga gcatgagttt gttcgtgcac ctggcgaagt taggagatga actcctcaat 180
ggtggtatag gaacacactt gactagggaa acttagcaag tcaaaggggg ccacgagtaa 240
tcatgcaata aataacgtgg aaaggactag cctggtacta tgattatcga cattattgtg 300
agaaaatata tcttgacaga gtctaacatc ccaagacttt aaatgatcgc caaccaaagt 360
gcatagcaag ttaccaaggg aacgattaag cacttcaatg tcaactgtag tttgtgtatt 420
gtaagcac 428

<210> 28543
<211> 629
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28543

acgacgagat tgttcttatt tccgatcagc cactnngcca nntncaant nanannttnc 60
tgtacaacac ggtgcatcnc tcntagnagn tcggaccctt gcagtgccat cgcacnagct 120
ctttatctta tgatanntga cncaegnata catcanctct cgcacaatga aacgagacat 180
tgtgtagcct tcacanggtt cgattagttg cccttacaaa ttgaaacgga cgagtgacaa 240
gcatgttcac tcacagggtt atatgattga cgttagaacc aatctctata ttgcctcata 300

tttgccatta ngccacttag tacctctttt tctatcttct tcttattgag agtgtctgcg 360
 tgatcggaat ctatgttctc taagatataa tacacactta cgtgtgtcat cgctcactgc 420
 tctatactcg tctctgagcg ccgtatgctt ctgcttttag atatttgaat actaacaaaa 480
 caattgtttg cagtttggct tcggatgcta tcaagaagtc tgttgatcaa aacgtctgca 540
 atctgaattt gacttataca tggaatacct gtctgttaat tcatttttct aaagcttatt 600
 attgtctact atctcgttga cgtctggcc 629

<210> 28544
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28544

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 gtgagaatat acanccactc acaggtgccc agtttttatt cnntggaaac nntccacgag 120
 tcnnncaggt ttgaatttnn tttggttcat gaattannaa aattttcatt attcatcann 180
 aaagtntttg ggttttccca tctcttcttt tccattgcc attccatcct cattctgact 240
 ccgttcaccc tttcccatc ccattctctt ctgatccctt tctctcactc ctcatctttt 300
 ctaaagagag aaaagggttg tgacaacaca aagaaagaag agaaagatca gataanaagt 360
 ggtaacgtaa tttcatgaga gaaataaag 389

<210> 28545
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28545

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 gacaactcaa ccaaacttct ctgggtggga atatgtgtcc tatcatgcaa gatagcgtga 120
 tcactagcag ccatgttttc tattaattcc atggcttctt taagagtctt caacttaatt 180
 ttacctcta cagaagcatc aagtagctac tttgactgcg gccttaacc atcaatgaaa 240
 attttttagct gtataggctc aaagaatcca tgcgtggggg tcttccactg caaactacga 300

aatcgttcta aagcttcact caaagattca tcgggaaact gatggaatga agaaattgca 360
gctttntcct ttgctgtctt ggacttanga naatatttct ttaggaactt ttccacaact 420
tcataccaag tccttaagct attaccttcg aatgaatg 458

<210> 28546
<211> 490
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28546

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ggnacnccgg agagtactct ttagtgcgag ctggcagcat tctattcttc tttttatcaa 120
ggctcatcat cggcggggaa agctggcgga nttcatggca aacttcctta ataggatggg 180
gactttctct cagcctttaa tcctttggat ttcacagcat cttcatacgg gataatcacc 240
atttagggac cgaactgatg cacaaagata catccgttat agatacccaa caacaacaat 300
catcacttac tctcaciaag ccacctgtga cgcagtatta ttggcttgtc cctgatccag 360
agctaactct caatggcaca cataagagga gtgtcacgat actctgcccc accctgggat 420
aggtgattgc ttgacaactc cggttcaaca acattgggat gaaacacgat ctagccctaa 480
ataatgcacg 490

<210> 28547
<211> 340
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28547

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atcacgatta tcgtctccct ttccattatt gngggtagca cctgngccgc cagatccctc 120
caccttttgg gcgtgttctt tgaatgatcc gcccccttt atgcacatgt tctgtagttg 180
catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattat 240
gtccttccaa gaatggactc tggaaagttc caagttaatg tccaagtaac agctacccca 300
ataagacttt cttggaagga atgtatcacc aattcctcat 340

<210> 28548
 <211> 111
 <212> DNA
 <213> Glycine max

<400> 28548

tcaaaggagc cataccaatg ctggccttgg aactattggt gtaagtaaac tcaatcaatg 60
 gcaaacaatg catccagcta ccttggttgc ctataatata cgcccgaagt a 111

<210> 28549
 <211> 286
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28549

agcttagtta ctacgagtgg gagagcgtan ggtagaattg gatcaagggt ggaagggtgag 60
 ggcgtgcatg gtggaaggga ttttgtactg ctatgattat ttggggaaaa tcaaagggtt 120
 caatgtgggg cgcgaggtgt gggaagagtt gaanggggtg gagaaagggt tgcccaagtt 180
 tctgtgtggg gctacgatga ctgatttggg tgggaaattg tgtgtggntt gggagtgtca 240
 ggtgaatggg catgaaatag agatttaatg cactgagatt ggagtg 286

<210> 28550
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28550

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 ggggtagagg gtgtcacatt gtggtatctt ccaatcaaaa cttgttaatt aactattttt 120
 tatcaacaag cagctgtgtc tccagcaaaa cctccaaaaa gcctggatca tgaggtcgat 180
 gatcccctgt atctgatgac attgaccatt ccacatctat ttttgaaacc tgtccaggtt 240
 atgtgggatg tttccctatt cggactgttt aattcaaact tccccttgta cataaagcat 300
 gaagatctat ctgaaatagc acacggtggg caatgtctca gcattctctg tatacagttg 360
 tggattctat aagtcaattt agattactat taattaccac aataattgct ttaaattgcat 420

acataattaa ctttgtctta acaacacatg

450

<210> 28551
<211> 264
<212> DNA
<213> Glycine max

<400> 28551

cctgcggcat gcaacatggt atcttatatg ttgacccgta tgtggcctca ctcttaacta 60
gcatccatgt ggctatgtaa gaccaccaat atcgaggagg cctggtagca ttgttgggcc 120
ctattatttg tcgagtgtga tagttagttg tgtctagtgt gactatcaat aatggtcagt 180
gtagtatttg actatgtcaa gagtgatagt caatgggtgg aagtgtata atcatttatg 240
gcaagtgtga taattatgcc ctct 264

<210> 28552
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28552

ctaagctnga ctctacaaa gatctttag agcttgacac ccatttgatt attcctagca 60
nacanancctc gattcgtact aaggagttgt cgtcttgttt gtttagaat taatctaata 120
atctcatgta acccgtcaga tttatttata agataaatga atggatatgt ttgcctgttg 180
tctacgggat gtgggagtat ttacacaaaa taagatattt gataaagata ttccacatgt 240
tgctgaggtt tcccttttat ggacacctgt ctaacctatt atgagtcgtg tctgcaacga 300
agtttccatc gtgttgaga agacgtgtcg tcattcattt catggtccta tcggcggttt 360
tagttgccaa ctctcttcca tcctatcttc ccccgggatt 400

<210> 28553
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28553

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cttaggcact tctctctctc tcgaaattgc tgaggaaaat tatttccgtg aagaanatcc 120
aagctgaggc gcttccgtaa cgtttccgtg agttattatg cgaagattct cgaccgttct 180
tcaagattca tcgttctgtc ttcgttttct tcagacttca acgggtaagt acctcaaacc 240
atgcttttca tttcattcta tgtaccctgt gtggtccaca ttatgtttca tgcaatttta 300
ttctcgggtc atttgctttt ataccactt ttgacggcta agccatttat ttagtcattc 360
tcgcttatct aaaataaaat aaattgcacc gatcgt 396

<210> 28554
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28554

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tacttcaaaa ccccttgatc tacttcacat tgatttattt ggtccctcta gaactatgag 120
tttaggtgga aattactatg gcttagtaat agtgggtgat tactcaaggc tcacacggac 180
tttggttttg aaagccaaaa atgaagcttt tgatgttttt tgcaaaacttg ccaagggtgat 240
taataatgaa aaaaggtctt aacattgttt cacttaaaaag tgatcatgga ggtgaatctc 300
anaatgagtc ttnttaaaac ttttgtgaag aatatggaat tcaccaatat ttttttgccc 360
ctcagaacac ctcaacataa tgggtgttgt gagatgaaaa atagatccct tgaagatggt 420
gcaagaacct ttctaaatga aacaaagtta cctaagtact nttgggctga tgttgtaca 479

<210> 28555
<211> 596
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28555

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ccgacanena ctacgtgtat gacgcttgac agtctctgga taggctcaat attttgcctc 120
cttattatac gtagtgctcc gcacaatgaa cggggattgt gtacatgtac ttctttcgct 180
ctccggtaga ccgcccctct ctataaagat tgatggctct tgctgattca ttatggcgaa 240

ctcaattaca ttgactagga tactcagccn atgtatgcca ttacggcgta tgtccactgt 300
tgaatattaa tgtatcatca ctacattact acctacgcca atatatgtat tacgttaggt 360
gtggcactga tgagtttcgg gnactaattg tttcacctca tagctctggt tagatgatac 420
tctgagtacc atttgctctc gtcgatccac tacttactgt actaaagatc gatttcgcga 480
gagttatcaa ctatactgta cgttcattac tcatgcgtaa gatcccgacg atacgattgt 540
cgttctgatt gtgacgccta ccttatcgtg acatagttat acagctcgta cattct 596

<210> 28556
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28556

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aacatgttga ccctgctcac tcacctgtat ggtctccac ctgattttat gcccccgtn 120
gcatacacia tagaaccac tcagccaatg gttgaggttt tgataccgac taaccaacca 180
gtttatttca tgcctccagt gaaccacaag atgacacggg tcatagaagg agttccaacg 240
acctgttcaa atgagcaact acaaagtgtg gaggagaggt cgaaagctat tgaaggtagt 300
aattatggca tgggtggaagc tgcagatctt tgttcgattc ccgatgtaat tattcatccg 360
aagtttaaag caccagagtt tgaaaatact aaggaactag ttgccctaaa gtcctaagt 420
attatt 426

<210> 28557
<211> 282
<212> DNA
<213> Glycine max
<400> 28557

attgaccggt ctttatcact gagctgcact tgtttattga ctacttgca gttccaagca 60
tgctcctgtc attatacagc ttgaggttcc ttgggactta ttaccacgg gaaacttgaa 120
aatctggatg ccttgagaaa gaagcttttt ttaggtctat ctctactaat tctaatagta 180
aattaccaga tgacgggagc aacaatgggg gggatcagaa tgtggacaag caatctgctt 240

caacatggcc gtcggactcg cctttactcg ggggctttca tt

282

<210> 28558
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28558

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 tatagagtga ctactcagaa ggaatggatg agccttgatt aggaccatct aatctacctg 120
 gttaaactaa ttacacaaaa catagcccaa actgcgagcc caattattta agttcagaga 180
 ttctaacttc caagctcaaa ttgacctca aaatggaaga atntgccaaa gcttatttgt 240
 aacaaaattg aattttatttt tctcatcttt ctagatacta ctcatacatt ccatttgaag 300
 ttctatagtg tcctctaggc cctgcacaag gcagataagt caagtaagca caaaatttga 360
 aaattagcta caattctcaa ctaagctcaa tcatttgctt aagaccanaa ctgagttaag 420
 gtgagaaaat aagagtcana gagatgtcaa ttg 453

<210> 28559
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28559

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 gcagcatgaa gctttttctg acctgacatg caacgcgtgc gagaaaccta acatcctaata 120
 ctgtggccga aaatctttat gtgtgcaata atgggtatcc cataatgtcc agggggcgaca 180
 cacttggcag gtttgttgaa acaagacgag attgcatcat caggcaagca accttcatca 240
 catatcattt tgagcaccat aataccctcc atttggctct gttgcataac tggcaaattct 300
 caattctttg tgagggcaca actgtctaca ttctttatgc cagatactac tgcttgcggg 360
 ggtacagtgt taccaacttt tcgcg 385

<210> 28560
 <211> 281
 <212> DNA

<213> Glycine max

<400> 28560

gacacataga tactaagcta ggcgcatatg taccacaacg atctccgttc ttactttgat 60
tcaccgaaaa aatgccccat tacaaacaga gcaactcgca cctatatata acacgacttc 120
aaagagatat gtacttacat acacgctcct tgggtaattc aatcatgcgt actcaagcgt 180
ctgaggacca aactgacaca tgcgcacata tcggtttgct atacctatcc tacacaactt 240
atgatgaact gactatcacc tatagggctc atatatgctc t 281

<210> 28561

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28561

acgggtctctc gactgcnctg gagcccgcca gaggatgggc cgctatTTTT aaagaaccgg 60
gagcataaca tctctcagag aagggctccc agcaggcata aacgaattcg acgaaaactg 120
cgcatcacat aatctcattg aaaagcaggc taaaaagaag gaagacggaa gggaggaaag 180
ccgcgaagac gacatagaaa cgcttttccg agttagaacc ggagtgacta gatctcg 237

<210> 28562

<211> 308

<212> DNA

<213> Glycine max

<400> 28562

agcttgggta tgatgcttca atggaggaaa agaaagaggg agagaaagag agatggggga 60
gcatgagatt gaatgaagaa aaatggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagatac aacaagtgtt acacatgctt ctatttatag actatgtagc 180
tctcttgaaa agctgttttg agaaaacttc ttgagaagct tctttagaaa actttcttga 240
gatgctagag cttaacttca cacaccctc tcataactta actctccttc ttgtaaaagc 300
ttcttatg 308

<210> 28563

<211> 437

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28563

ctaagcttct ctaccacccc atatgtctcc ccctttgact atatcaaata tgccaaagtn 60
tggagggaat caatacagat gaaataatga agtggacaaa gatcaattat aggttataac 120
caacccaaaat tataaataag tcataaccaa aatataatcc aaacagtcac aattcaaaac 180
cacatagaat ctaaacataa aagactcaag tccaaatact aaaagataaa taaagtgcag 240
aaaatgataa cttaactacc atagccaata tacaaggctt aaaagaaaat tataaactaa 300
actctaaaaa ggtggaagtg gtggtggaag gtccaatcac tgactaatat aaccacatc 360
ttcttcaagc tgtgtgagac agatatccat gccggcaaag cgagtatcca gagaatcata 420
acattcgcca acataag 437

<210> 28564
<211> 603
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28564

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gaggcaaccg ngagnantac gacctgacag gcanngcgaa gctttagctc tattttttat 120
gaagagnaca ccggcacaac tgcacgagcg cagttgcagt gcgtgacttg catatttggc 180
tcgtctactc tatatatgcc tgtggaanga catattctac atatctctga tatctggtga 240
aagaaacttc gcctatggaa tagacgttcc taggtgtcct ctctatacgc atatgcagaa 300
gcacatacgg ggttgggtgt gaccatatca ctactctggt ctcttcttgc ttgacgaata 360
atatgtatct ccatatggga gaatggacag aatggaatat ggagtcttcc ctgtgatccc 420
ctgcatgcct gctgaacttc gagtcatagt gccattccac tctttccatg gttgcggcct 480
ctcaaggagg acttcccgtt gatgctatcc gggcccatg caagagatgg ttacctgatg 540
atatttggcg ctttgcgcga cgcggtattgg aacataattg tgtggacatt atgctgacga 600
acc 603

<210> 28565
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28565

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 atcttcacaa acaagtact tgaagaattg tgacttttgg aaatgtattg tttgaaatca 120
 ctactggta atcgattacc attaaggat aattgattac acatcaatag atgtgacttt 180
 tcattctgaa tcttgaatat taaaacatgt acaaacactt gtaatcgatt acaagtattg 240
 tgtaatccat tacacaagtg taaaatgatt taaaactgct gaaatttgaa atctaacatt 300
 ctaaaacact ggtaatcgat tactaccttc tggtattaat taccaaagag taaaactctt 360
 tggtaatgat cttgtgaaaa cttccttggt ctactcaatg 400

<210> 28566
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 28566

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 tgacaaagtc tacacaaaaa atgggaaaag aaattaaaaa attacatttg tttgtctatg 120
 atcctcaatg cttattatca ttattattct ttatatTTTT atgatgggac aatcaacttt 180
 actctatata tctcattgtc ttgccagggt ctatgtaatc ttacgattgt atcttgatga 240
 acttcaactg aaatttggac tcaaccaagt tttggtgtca aaaacaagta aaacaatttt 300
 caacttcttg gttcagctca cttgctcacc aatcaagtcc aaaccatta tgagaaatga 360
 c * 361

<210> 28567
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28567

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tcaattagac tttacccgta tctttgtgga tgtatgcctt gaaaactgcc atgtatttgt 120
 tggacagggt tcctagtaag gcagttccaa agacaccttt tgaactatgg acaaataagga 180
 tacctagtat aaggcacctg catgtttagg gttgccaggc agaaataagg atttataatt 240
 cgcaagacag aatattggat gcaagaacaa tcagtggata tttcattggt tatccagaaa 300
 agttaaaaag gtatatnatt tattgttcta atcat 335

<210> 28568
 <211> 130
 <212> DNA
 <213> Glycine max

<400> 28568
 ccgtaaacad ttttaattta gacacgctat gttgaaattc tgcattaact gattatttat 60
 attaacttag cttacatcat tcgttaaag cgcccattac tgcctataaaa tatactcccg 120
 ccctcacccc 130

<210> 28569
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28569

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 aggtttgaga agtgaaaatg agaatggggg aaattttgag caaactctca cctcacacaa 120
 gtctataacc ttaactctaaa cttgctcaaa ctgggttttat gcctaaaatt ccaccaaatc 180
 aaaatttgac tcctcaacac ccaaatttta ccctagaaat ggctctngcc ttcactntgg 240
 gtcttttggt tttctctctt gcacagccca agctttctca taagttctaa atgacacttc 300
 aaactatgac taactcactt taacctgcaa tttttactga ntccagaatt agccttttca 360
 acccttaaag catcacactt tttccactca taacactaca 400

<210> 28570
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28570

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cctntgaaag aagaaaatgc cagtctccgt tcagaagtga tccttatcag gagtgagtat 60
gagcagctac gttctgagaa tgctgccctc aaagtgattt tgaaatgttg atatgttttg 120
atttttgtct tttttgctaa ttggcaagca ctggtgceca taccaagtta tacctactat 180
caataacact catatttgaa ccctggtttg gagagaagga aaaggcctaa atggactaat 240
atgaccattc tagttttcaa attccgctcc tactaccata aaaggttcat tcaaagactg 300
agccacctat ctgattacag gatagacttg gggagatacc tggagtcacg acacctgtga 360
atgaggatct tangtctggc cagaatgatc agcatgtgag taatgacact tcacanagtg 420
gtcagacaga tgtggtgcat ggagttcatt aagatcttgc 460
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<210> 28571
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 28571

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agctttctata ctttggttta ccttgaatca attcctgtga tagccctatt gagccttgta 60
tcccttttct tgttttgaag ctactacaa gccttaagtg aaaaaccatg atattaccat 120
atccttaaag aaatttggag ctctggaatt gttttgggaa tacgtgtgag ggggttttgt 180
ttcattggac aacttgattt gttggctatg ctacatgatg tactttgggc catacttg 238
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<210> 28572
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 28572

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gaagctcact acaagctctt aagtgaataa ccatgatatc accatattcct taaggaaatct 60
tggagctttg caattgtttt ggcaataact gtggcgggtt tttgtttcat tggacaactt 120
gtttogctgg ctatgcttca tgatgtatta tgggccatac tcgatgtaca ttgtatattg 180
gttaaatgtt ggacatgctg aatgaaatgc tgtgtctcac acgctataaa gtaaaaaaaaa 240
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<210> 28573
 <211> 470

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28573

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gacctgoggc atgcaagcaa tgtaattgat gcagatatna caacgctgaa gcaggggtcc 120
tatagattca aaaatggggc cctgaacctt ctgctttctc ataccagata attcttaaaa 180
catttgaaca gggtaccata tattcttgta ctgctgcctt ttttttcctt ttaatagtta 240
atactcttga gccactaatg gcggggctgt agattgcggt acttctgggt tcctgtgaca 300
ttctttgact aaacatcata tatgatcact gtctccttct taaaaaacia aatccctaata 360
gggaattgaa ttgtggattt agacgatgaa tggtagacac ttgagaaaaa tataaactgt 420
aataaaggcc aatgaaggca tttactgcaa ccaatcttga tatgatgtcg 470

<210> 28574
<211> 204
<212> DNA
<213> Glycine max

<400> 28574

gactgcgtaa atggactcat aaaacaatta taattctgat agaatagttt gtgcgcgggc 60
ttactgtaga caacatatga atgccgacgg gggtagaga gttcttatat agatttggca 120
gatttctgat tctgggtgct taactaagag aatgcgaatt attcccagta tatggtcaaa 180
ctccaaaggc ccagtcagtc tact 204

<210> 28575
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28575

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tctggccata tgttattaag tattaattac gagcatactt aggcctacca aaatttaacc 120
taatcaggcc tatttcaacc ggtagttata aatatgttaa attaatgtgt aagtctttat 180
attatttaat aaatttaatc aagttcttta attatatatt tcttttatat gagtctatga 240

acttgcattt atattctaaa taagtcccggt tattcttaat tagttccttg ctaagaccta 300
 attaaatatt agatacaagt ctaacgatct aattgataaa aaagctaaga attatttaaa 360
 aataaataat agttcaaaga tta 383

<210> 28576
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 28576

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 gtcatttggg ccttatggtc tgacaatacc cgccgttcga gaatggtgat tgacctcaat 120
 gaggaagata aagaacggta tccacccgag cacatgtatt gaggattttg gaaatcgaag 180
 aagacactga gcaagtgggt ttggaagttg tctctatagg agacgtggct ttcaatggcg 240
 atggaggggg caattctaca aggtgatgtg gtgaggctga atacactgca atctactaaa 300
 catcc 305

<210> 28577
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 28577

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 ccctcgaaag caagaaaaaa gaagagaagg aaaatttcca atcaaaggaa aaaggagaag 120
 gagaatttcc aatcaaagag gaagcaaaaa aaggagagaa ggaaaatttc caatcaaagg 180
 aaaaaagaga ggaaaggaaa ttcccaatca aagagtggga gaaagcaaaa agataagaaa 240
 gaaaattccc aatcaaagaa tgggagaaag attaaaag 278

<210> 28578
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28578

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cgacctttgt ttggctccttg taagggtgctt ggcacccatc attangaaat ttgtgaaatt 120
tcgggacatg ccgaaaaaca aaagaaaata ttgatgcaca atccgtaagg ttccgtgaca 180
caccggaaat caaatggaag catcgttgca taattagtga ggttccgtaa catttcgtaa 240
gtcaaaaagg ggatgattat gtaatccgca aggttccgta acattacgga aagaaaaaca 300
gtatcgttac gaaattcgta agtttccgta actttacgaa taaagaatca ccaaaaaaaaa 360
gcagaggggg gtatacttag taaaaatagg ggtgcaaata gcaa 404

<210> 28579
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28579

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gttccaagta ctttgattt ggtacacca tgccctcctg atttccggct gggaaattgg 120
cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaaccctt tacgggtttta 180
aaagctctat agttgggcct atgctttaga gtttttccctt ttgttaaggc tttgtgtctn 240
ttgtttttga atttataata caaggatctt tcttcatctg ttcttgggtct ctacccattc 300
tcattcattt gcatgtttac ttctttttct gaaacagcag atccgatgac gagtcccccg 360

<210> 28580
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28580

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ggagccggat cttcaaaagg caaggacaat ccctggccta ggaaatccag tgcccatact 120
ctagtgtcac gccccagatc tctcagttgc ttctcataat ggaaagagcc aacacaaaaa 180
ccaggaagaa agagaacatg tggggaatcc acgttctcac accctgcctt ctcatagtac 240
acgttaagct taggcttcca ttcccaaaag caactactta ttggagcanc cattgaccca 300

tctggcagac ctggaatgac aactttgtta gtagcaaggt cttctacccc tgcaatatct 360
gctacatnct cttcancacc aattacatat ccatcgcaac tttcacta 408

<210> 28581
<211> 333
<212> DNA
<213> Glycine max

<400> 28581
agcttgtttt ttggctagac atgatacata tcagggcttg gtttggttca aggataaaat 60
ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aactctatgc 120
aaaactgggc atgcatgcgc ctatgcggac gctcaagtg caaattttta tggtcgggtg 180
atgctatggg tcatgattca tttctctatt ttaaataacc caacgtttca aaatatgttt 240
tttatcaatt tgtgcattca tccgagtcca ttttgggcgt ctgggaaaat cctcacaaca 300
ttcacccttt acgtgtatac acattttttc aaa 333

<210> 28582
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28582

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aagagagcac agatcccaaa cttatccaag tagtcttttc aatacaatta gcttattcac 120
tagcctttca ttttaacttg tatttgacct tattacaacg acacacacta tctgtgattg 180
cttttttttt ttctcttct tttttattga tgtaattggg ttgtaacaca acttatttgg 240
agtgtgtgct gatgtgcttt gccttccact atacatcgcg gttaactccg ccatatttag 300
ggaaaatttt cttgaaccat cttgatgcaa tcttaccctc aaggacattg gatagaagac 360
tccaagaaga ttgggcaaaa gatgc 385

<210> 28583
<211> 303
<212> DNA
<213> Glycine max

<400> 28583

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taccaacga cctaaccaac taacccttgg tccatacaag gcatgactca acttattcat 120
gcatgcaact ttacgtgaga gatgtcttcc tgcattctct ttctacacat gtgatcaaca 180
tgaacttaaa ggagattcca aatcgtcgca ctcttatggc cagaatcata catcaactta 240
attcatgacc tcgcttagta aaattcataa acatcattca ctttcacaat atatatgcac 300
aac 303

<210> 28584
<211> 384
<212> DNA
<213> Glycine max

<400> 28584

tctgcacccc ctacctatga atgtaacatc taagtaaagc tagtgaattt tatcgaatac 60
tcatgcagcg cattaatgtc cccgagacta tattggcttt gactccaaca ctggccccgt 120
acatacgttc ctcatcacac tcaagagaaa gtatcggtat attcttaatc aaaaatagta 180
gcccttctag atttcatata gtgataatat atgactatat gctctattct ataaggctat 240
tttaaatacat tatctttgca tctgtagaga cataatatct ctgctatata ctacatattg 300
taaagtatta acaaagactg actaaacatt attcttttta agctatatca ttcatataac 360
gcgtctttct ctcttcattg ctat 384

<210> 28585
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28585

agcttttatt ctcaaaacat agagccaaat tactaacata ccaattcaac aattccacaa 60
ttcaacaaac ttaggcattat tcaacaattg tacattcacg aatatattat ttataaata 120
ttctttcatt acataccaat tcatcatcat tactttcttc ctaactaatt acaaaatgac 180
aacatcttat tgacttgcaa accaccaaca ccaaattaca gacctcgat acataatgca 240
cacactaact agcaaagaca gacccaacac acaaccaana gaatccctat aaatttttcc 300

ttcctcttca tgtccctgat cctgctttgc aaatcttttt tcctcaactc ccattcttca 360
actttcttca 370

<210> 28586
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28586

ggattnnnttt acaggagaaa tatcatttag attttgtgta ttananaata atccgaaaat 60
ctttgaaata ttacagttc aaataaaatt acattccata aaatgatatt ttatgtaact 120
aaaacatata agtaatatat ttagatataa atatacaagt actcattcaa gtgagtgaga 180
acaatttggt atcccattaa gattagatct aatatgtttt atgactgtac aattatggat 240
acaatacctc atccattgtc aatetaatta tgattatttc tctttgtatt gttcacaatt 300
tgtatctntg cgaatgtgtt atgtccttca aaattattga tatattccct tccattgtaa 360
ctaactctta acaatagcac acccaattga aactctatgt ttgaaaatt atttgaaaca 420
aagaatgata attgttaaca aaaatatgat gacata 456

<210> 28587
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28587

nacgcgttcg tttaagctac ngcatacann ncaatngant nggtcccgng atctctaagt 60
cacctgctgc ttgcaacttc tttttcatct cattanacat atgaatgggt gtgttggtgc 120
aatcanatta ctttgaacct gtgggttttag aaccaatta gaatggtcca aactggctct 180
actaaataac tgaagttgaa cctactggga tctttgatag gcatttaact cttactctgg 240
tgggaccgaa cttattattg cactcttttt ataggggagt tacgtttgtg atcctggtgt 300
ttcctcttcg cattaagata ttocaaattg ggggaggcgc atgcaagttt ttttatgaaa 360
cctgggaccc taaaacggct gatacttgtc taaggcatgg gcggttgaag caccaggtct 420
gtatccttgt caaac 435

<210> 28588
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28588

gccccgattg agctaagatg actnantgtc ggnaccatag aatantaagc tncgacggcc 60
 acatnatctt gtgagtgatg catggctctg tatcatctca agangccgng ccgcctttgt 120
 gttggtcgca cgccactgag ctctgtctgt tgctcaaaat aaacatgatg tccgcaaagc 180
 ttatccaatt acttttaaga ctaattattt tgttagtata cccacaaaag aacaaaacgt 240
 tgatttcact gtttataaat tgacttttca aaaattatta cgaataaaac gagtgtctta 300
 tgtgttatca gtaggaatct tagatgcttn tgaaacgtgt gcccaaattg gaggaaattt 360
 aaaatcacia attatgtctt aaactttttg gaagaaatat ttttctcaat gtagcaaact 420
 cactttttat cttatctaata gacatgttaa aacattatta atagaataat ctattatcaa 480
 g 481

<210> 28589
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28589

ttcttgctta tacaagtaac tacatttggt tttgtacaaa atgaagtagc tgactaaatt 60
 tcactaatat atacagtgac tactcagaag gaaatgatga gcctagatta tgcccatcta 120
 atctacctaa ttaactaat tacacaaggc aaagcccaaa tttgtagccc aattgttcaa 180
 gtacaaaggc tctaactgcc aagcttattt ctgancaaat tgaagctctt tttcttagat 240
 ttctaaggac ttctcatatg cctccattgg tgttctgtag tgcctatat gccctgcaca 300
 aggcagatag gtcaagtaag cacaaaaatt caaaaataag ccataattat caattaagct 360
 caatcatttg cctaagatca aaactgagtt aaagt 395

<210> 28590
 <211> 432
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28590

agaaactcag cttagtcatg gtatcgtaaa atagtatttc attaactatt aaaaaacgcg 60
actttcacta aatcaatggg agaactagct tcatatattc taanataata ttctacaacc 120
aattctctct ttctttctct cccatgtatt ctaaataaat aacaaataaa aggaaatcag 180
atactattac tgtacaagta cactgtaaat acacatgcag acacatttag agaatgcaac 240
aaattntgta aatatagcaa gcaacaacta aacattatat tattatatca cacatctgtt 300
aatacatatc ataattctgt cctgggtccaa aatagagaaa tataaccacg ttgctgtatt 360
caacagaaag tttcttcaca tttgtcttca actctttttg tanaacaagc agaacctata 420
tggggcatta tg 432

<210> 28591

<211> 485

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28591

nnncgcggat gagtcatgaa gnctngacaa tcacggcaat tcagctcgga cccgggatcc 60
ttagagtcga cctgcggcat gctagcttgg ttgtagtcat acctcacaaa atatatatat 120
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 180
atatatatat atgtgtaggt ggagagatac cctggatatg cgtgtgtgtg gcaaaaaaaaa 240
tatcacacaa tatatatatg tgtgtgtagg tggcaagata cctcggatat gcgtgtgtat 300
agcacaataa tctcacacaa catatatatg cgtgtgtatg tggcaagata cctgtgacac 360
acatgtgtat agcacaatac ctctcacaaa tatacgtgtg tgtatggaga aaaaatacct 420
ctgaaaaaaaa gagagcgcgc gcgagaagag tatgaagaaa aaatataatg agagagaaac 480
tttcg 485

<210> 28592

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 28592

tccttntagt gcgtcacgtn taanaccgag ctcgatgggt gtgcgagcct ttgatgggtac 60
tcggcgggaa gtgatgggag aaatcgacat tccattcag ataggcccc acacttgcaa 120
tgtggtgttt caagtaatgg atataaatcc cgcctatagc tgcctcttgg gaagaccttg 180
gattcatgcc ctgggagtgg tcccttcaac gcttcaccag aaattgaagt tcgcagtggg 240
tagactttta gtgatagtgt cgggtgaaga ggatatgtta gtgagttgcc cctcctccgc 300
accgtacata gaagcggcgg aagaatcatt ggaaacggct ttccaatcct ttaagtggt 360
gagctgcgcc tcggtggaac caagtccgtc gctactttct ctctccaacg tggccataat 420
ggtggcgcggt gttatgctc 439

<210> 28593
<211> 664
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28593

aaaaactagc ttggttgacg gattctngat tgntntcnta gcannnanca nannnanana 60
atnctancn nngngtcgca nngangnaag acgntcganc cgagaatgtc gaagaacgtc 120
ttttattctt tatttctcta gaacgaccga ccagagacgg gcatgggtgt gtggtctgat 180
acgaaagaac catcactact ccgtcatact caattatcac acatcgagg aagcgtcatg 240
angcgcagac agagtactct gcgtaatctc gccgtcaaatt attatatggc taatagtacg 300
gtcacctacc atgtctactc catctaagta agtactacat cattgtagtt gcacgacaca 360
atgactattc atgtacatgg tctactctc tctcattgtc ggtgagtatc atctatgtat 420
gatagacact ataccgtaag ttacgcacgc cgtcaatcaa ttatcatatc tacttactaa 480
gaccttgatg ggccacacga ctccctgnta atactttata ctgcacatga ggtacctatg 540
cgcatactat gtgactttac cgaggcacgg tgatcgctcg ctgtcaaagc atggtatatc 600
gcactcagac agttaacaag ccaccctaca cgatctgtta ctactactc gtactctcat 660
accg 664

<210> 28594

<211> 359
 <212> DNA
 <213> Glycine max

<400> 28594

aaaaacatac ttgacgatgt tttctatggt catttctaca aaggactagt ctagctctga 60
 cattgtagtg tcagacttat tgtcattaaa ttttgcata atggcctctt ccacagtcaa 120
 gggctctacag ttataaaactc tatatgcctt ggacaattca tagtactcaa gtaagattcc 180
 aaaatcacat ttggaatcaa actttccaag gttatccttg gtgttaagat gatacactaa 240
 cacccaagtt tcaattatgg tgaaaccatt ctcttcacag atttttcaaa gatcatttca 300
 aactcgcccc atgatcactt ttgatgaaga gatcaaatgc cttttcattt gaatctttt 359

<210> 28595
 <211> 520
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28595

gtgcaaacta tctccaaaan tttcagaatn gcananncnc nagnngaga ctgcgagat 60
 agtgtantac ccgccagact naaaattagc ttgttacttt ctcaagcttt gatggtacgc 120
 cgctggatat gaatgtacaa cttgacttct ccattcaata tgtacaacta cctgtgccgt 180
 aagatggact gtcagtgact gaatctcacc gaggtgagct cttatccaag acacaaagct 240
 aacttcgctg ggtgaggact catcaggccg tgaaaggatc gtgccgtggt agtcaggttt 300
 acttgtatgg accttgtttg ctgtagatga atggttattc gagagacaat gcctcgtgag 360
 acactacata agcgtgggtg cagatacatg acaacagata tataactttt taccgggggtg 420
 aggaccgctt ttgcgaaaca accaactgcg gttcttgttt ctagagactt gacgactctg 480
 tgctgcatgt atcgctagta atatgcttga tgccgaaacg 520

<210> 28596
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28596

agcttgattt gttgtcatac cctacaaaat atatatatgt atgtgtaggt agcaagatac 60
 cttagacatg catgtatgta gcaaaaagat acctcacaaa atatatatat gtatgttttag 120
 gtagcaagat accttagata tgcattgtatg taacanacag atacctcaca aaatatatat 180
 atatattgtat gttttacgtag caagatacct tggatatgca tgtatatagc aaaaatacct 240
 cacaaaaata tacacatggt taagtagcac aatac 275

<210> 28597
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28597

tcactctggn ctctagctga aatcttgagt ccattggagc atttaatgct tgcacaaac 60
 gcatgtccct tcttcacgta aagttcatgc tgataggttt atgtgtctag tactccagta 120
 aagaggtaac ttctttcacc ataccatata tgcaataaca gagtgtgcct cttaataaga 180
 atcaacgtct ttcaaactgt ggactgtagg aaatatgttt tttgggggaag attcatcaat 240
 ggacaaagag accacaaggt gagtgtttta caaaataatt tgggggaaaaa gaatacgaaa 300
 taggaattga tatatcatct acc 323

<210> 28598
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28598

agcttagtta tttatggtct gcttagcgct tctatgaccg caaggaattg cgcttanttg 60
 gcatgagtaa cacttagctc aatgaacccc aattctggcc gcaaggaaat gagcttagcg 120
 gcgacatctc gcgcttagct agtgaatacg aggcgcttag ccagtaaata cgaagcgctt 180
 agcgagaagg ctattgctta gccatattca gatcgaattg aaatgggctt agctcaacct 240
 tggccagctt agcggaccat atcaacttga gatacaaggg ttgagcgctt agcgctataa 300
 actctccgct tagcgtagta caaaagatgc acttagca 338

<210> 28599

<211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28599

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cctcaagctg agacatacct tcgaccgaca cggcogtgn tctgtttatg cccttattct 60
ttgcgggctg cagccccggc tccgcttccc taactgtact ggaggcggtt gccgtggctt 120
tatectctat ggttttcttg agttttaaca tgacctccga gatggaagcc atttgatctt 180
ttaaggccga tagatcggcc ttcactctgtt cctgcacgcc ctcttcatta tccatttatc 240
tggatcgagt gttatatggg tgccttgggtg tattcttagc tatgatgaaa ttcctaaaga 300
aataaactac ggtgagtgtg ccacaaaaac atgagtatgc taatggatga tctggacact 360
tggatccacc ccgagggttt tagataacgt aatgagtcca gaactttctca ttttataaaa 420
agaacacagc tgtcatctag ccaagattat acaaatgtgt tacaagagaa cc 472
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<210> 28600
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28600

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agctntctct tctctcagtc tttgactcta ggaaatattt cttcagaaac ttttcaacaa 60
cttcttccca ggttttcaga ctgttaccct taaatgagtg gagccacctt ttggcttctc 120
ctaccaagga aaatganaat agactaagtc taatggcttc atctggcaca cctgcaatct 180
ttatagtgtt acggatttca atgaatgttg ccaaatgtgc ataggggtct gttagtcgct 240
ttatacgact aactntggta tagaaatcat tttccaaagt ttgtatagtt ccccaatnta 300
tggttatttt gtagtgaatt ttgtaaataa atcttgtttt atgggtaatg ttgactctag 360
aacatttcca ttgcatttaa tgatgaaatt tat 393
```

<210> 28601
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28601

gaaagtttat catttcagtt tcttactatt taaaatggat catttntaag gtccaacgac 60
 ttanaatgat cacctttcaa gtaaaaagaa tcacttgatt cacgcataag aaagaactac 120
 ataggctctga tttcctcttt gatggagggt acgtaggagc aaaagccccg cttttgtcga 180
 cctcaaaaaa taaaaagaaa taaagttaag gtaacacaat ttccacaatt ctaaaaaata 240
 ggctgttgtc cttcaagaca aacgtaagag gtgctaatac cttcctcaac cgtaaataca 300
 actcccgaaac ttagaatttt catttttgat cggtttcctt cggttttccc gaca 354

<210> 28602
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28602

aagtactact cgtactttca aacnnaaac cggctggaac ttatgacgcc ttttttttta 60
 tngaacaagg cagagtgggt actcagaaga aagctatcgg aaacgaagca atatcgtctc 120
 taccctgcta aaccaatgcc aaccatcgga aacatgtttc caccttaatc tgccaagtgt 180
 ttaaaagatt tgtgggatca acggagccca cttatgtcgc ctcaaataata tcttggtgtaa 240
 gtcgctatct acacttcaaa aaatgcaaga aatgggatca aatactcact g 291

<210> 28603
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 28603

agcttctctc ttatttactt tctctcaaac taagtgggag aataccaatt actaagtcct 60
 tattaactag acaattgagg tgggtgcatgt ttacatgtgc atccctacga agcaatagtc 120
 aaaaatcatc aatcttattt ttcaagcaac taagctcatg atatgatgca tgttcaatat 180
 taaacctgta gatattacct atttttctac ctatgtgaac aacctcacta gtatttgctt 240
 cacaaatgaa acaacaattc ttgttgaatg caatattgaa gccttt 286

<210> 28604
 <211> 185
 <212> DNA

<213> Glycine max

<400> 28604

cacataaaac taagctgagc tagtagaata atgatagcat gtgatttttag ccgatttcgt 60
atcaaataaa cattaagaat gcaatatcta ggaagtgatc ctacgtcgtc tcccaacgag 120
taatgggtcaa ccaaatgttc ataacagatt gtaataaaac aataacgaat tgcggggggg 180
ggttg 185

<210> 28605

<211> 356

<212> DNA

<213> Glycine max

<400> 28605

tatcacatga cgatgtgtct attgatttaa cctctagata tgatcgtgat ctcgtaacctt 60
ttccagttaa tggatgtcta atgttggctc ccagtcgatt cagaggaata tgctagttaa 120
taactaatca atcaatacta ttatatgttg aaagaccgat cgccaatggg cttgccatgt 180
agatgtcttg ataactctgac atttcgcaa tatttggtagc atttggaggc accgctcgaa 240
tacttctaac cttttgttgt cgacctatct caacaacttg cagggctttt actttcttcc 300
caatactgtt gtagtcaaca tttagagata gatccactct attgttcaca tacacg 356

<210> 28606

<211> 321

<212> DNA

<213> Glycine max

<400> 28606

agcttgtctc attgtttatg cgagacagag accaacaatgt tagccatcgt cagcaagtac 60
caagaagaat taaatctagc cacggccac aagtacaaag tggatgaacga gtatgcccga 120
gtgtatgcgg aaaaggaggc tagaggaagg gtgatcgact cgttacatca agaggaaaca 180
atgtggatgg accgatttgc tcttactttg aacgggagta aagaacttcc ccaattgcta 240
gccacggcta aagcaatggc gggacaccta ctccgcccc aagcttctcag ctcgtagctag 300
ggactcttcc aattcagcac t 321

<210> 28607

<211> 331
 <212> DNA
 <213> Glycine max

<400> 28607

tataagtggg aattgactca ctctattata atttactaat tttttggtat ttcttacata 60
 aaagttgaaa catcacaatc ttaaaacgct caaactttga aatagtggta aacaacaatt 120
 attgatgtgg atttatatgt atgtgatttc agggtcattg gagctattct catagtaatg 180
 ggactttact cagttctgtg gggcaagcac aaggagaaca aagagaaaga ggcagagata 240
 actattgagg tattgaagtg ttgtttacag aatgggatga cattggagac tatggtaaaa 300
 gatgtcgaaa caaacaatga cattgacatg c 331

<210> 28608
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28608

agagtttgcg ttcgtatgac tgcaannctt nggaangncn cgggctccta tgagtcgact 60
 gcagcatcaa gctttttttc agtttttata tgaatgacac tctgggagta ggacgttgta 120
 cgatccaact cgggccgcca atggatgaaa gcaagagaga tttctaaaat ctgccctgtg 180
 atgcataaac ttgctggtga aatgggcacc agaataattgt gcttgtgcat aaaatgctta 240
 tgcacggttt ggttggggaa agggttgtac atatttgggt cttaaacatt tctatctcga 300
 tccatcagtc aaaatgtaac ctatggactt aggaccttca gtgaattttg aagtgattca 360
 ccgggaacga atggaatgat taaatgtttc gggggatgtg aataaaaaag cgtggaatgg 420
 ttgcgtttgg caaagatccg cctctccctg ttttgcgtgt tcgatacg 468

<210> 28609
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 28609

gtctttctcaa cacgaacctc tactgaggtt tcaactgtct tatctgggat gaactcttac 60
 gctgagggag ctggtggtgc tactgctgct gattctgcat cagcagtatc cttacgtccc 120

tctgattcctt ctttcactta ttcagttttc tcctcagatt tctcttgtgc tggatcctct 180
 ttctctgtct cctttgccac cacctcctag gtctctactg gaacttcttt acgctcctct 240
 gaggtacttt gtgtaggtgc tttct 265

<210> 28610
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 28610

tcttatttat tattttaact acaccaggcc tctcacatag caatttgtca attgatttaa 60
 actctagaga tgatcgtgac ctgtcacctt cttctgatat tggatatctc atgttggttt 120
 ccagtaagtt gagaggaatt cctagctttt taacgaatca gtcaatatta atatatcttg 180
 aacgaccaat acctacatgg atatggcaac tttaaatactt ttctatcttg aatatttcca 240
 aaaattttct taaaaacttg gaaagaagtg tctgaattta atgtcacacc ttttgatggt 300

<210> 28611
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28611

aaaagagtgt ctctactng taacttcngc anancntgn gattngnacn cggccccggg 60
 atcctctaag tcacctgacg catcattctt attttaagaa ancagacgcg acaagggtat 120
 gcgaaatcac taggctacac tcttaccaca agtcgaacgc gtatgatata aattgattct 180
 ttctgggacaa atacatttaa atcttgatag gatttctaca tcaataattg ccagccaact 240
 aagtcattct tttttagaga ggccctctaa taagatgatg cattgtatca gctacactat 300
 gtgagcatta caagcttgct tccaaccaat ggtgttgatg gcgcactaca agtaaacata 360
 ttactatttg atactctaca tcattcataa gttacgcaat cctatgcaga cactgcaca 420
 ttgatcaact ttgtaatata cgctttcaca cttgaatagg tagaagagaa atattaccta 480
 ttcttacacc ccc 493

<210> 28612

<211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28612

taatctngtt tggattgatg gngaccccggt gttgagagag acgatgatat gggctacctg 60
 ggagtacgtg agctcagttg gaggtgggca acatgggatg gtggggtttat gcgcgcattg 120
 tggatgtgga aaacttggtg tgcaccatcg cccgaccgctc atctattacc acatgggatg 180
 ggtaccccat aatcctacaa gcttgagatg aagaagagta gaagggtgaa acttcctgct 240
 tttattg 247

<210> 28613
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28613

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 cttactgatt tcaagatgat gatgtatctg aatctgatca agttatgttt gttcaattgg 120
 tgaccgctga ccatatacaa aataaggaaa agaaagtact atttttttta accttttata 180
 cttgcatatg gttcctgcct gggttaagttt tttgccactt acaaagtatt tgattgaagc 240
 caaacttatg catgacagct ttcttttagtg gttgcaagga gaggaagtat aaaaagttta 300
 tctttgggta aatgaatggt ttctctctaa tttatttatt acgtaagttt gatgtagttc 360
 tctaagtttt tacatcgatt caaatttaat tcttttggtt taataaaatt aatcatgtta 420
 gagaatctgt att 433

<210> 28614
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28614

ctagctccat gaactntaaa cttaatatcg gaagcgcttt agttatcgct tcactcttggt 60
 gtccatcaat ttcttggcct atatcactgt cattctagca atntaattta actcatttct 120

atcctaatac cttgtctaatac tgtcagcatt attgcaccct gtaaagcctc acaacactca 180
 ttgttggttc ttacctttta cattggacac ttccattcca taacatggat aacgttggat 240
 ttcatgttc atctatgatg ctgtgtgcca cacctgaacc tatttggaac tggtattatg 300
 ctctattctc ttcggttatt atatctgtgt cataattttg gaggtcacat tgagccttct 360
 ttttctctca gagtcaaaaa atacagggt gctatatact gaattgacag tcaa 414

<210> 28615
 <211> 186
 <212> DNA
 <213> Glycine max

<400> 28615
 attatctgag tagtggttg aaaatcatac tatgaaactc ttcattgcttg tttgaacaac 60
 tctagacctg accaatctgc cacaggtatt catgaaaagc ttagcatgat ccaagactct 120
 tccactggcc aactttctat acaaatagct ctcacacgtc atgcgttgaa catactcata 180
 ccacac 186

<210> 28616
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28616

agcttgacga actttctata ttcatatagt atttgcttnc agaagtccca ttggcatctc 60
 tgtgtttcaa atgggtgtacg aaaaagtgtg ctacctacca atggagtaag aaattaaagc 120
 tcattatgcc atgatgttcc tcaactatat ctatatatca tccagagaga aaaggaatgt 180
 ataactacaa taacttacia aaatatgcca caacgcatat gatatatcca aactctacia 240
 acgaagaacc catatgaacc atgacaacac aatcctctac agagaatgta tgcccanact 300
 actattagtg ctctacaact caagattaaa gatgtttctt ggaaaataac aacaagacgg 360
 agtgtgctct ttactatcca agacattaag ccatatggtg gtatat 406

<210> 28617
 <211> 288
 <212> DNA

<213> Glycine max

<400> 28617

gctccttcaa ctgcacaagg ctcttaatat atgaagagtt tttttgtgga atcttcactt 60
tatgaagaca ctgacaaaga ctaatcttct acttttatga caaagtatga caagctgtgg 120
gcaaataaat gttcttccca tcagaccttg gatgcaactg taatcgtatc ctcatTTgag 180
ctaaatctta acgaggattc aagccatcct ttgtcttgcc tcgaatgtta aagagcatcc 240
caatcacact gtcacatata tattttctgta catgcttaac atctatac 288

<210> 28618

<211> 355

<212> DNA

<213> Glycine max

<400> 28618

agctttgacc ttctgaattt ttatgactta ctcagccaga tgaggcaaca ctcttcagct 60
tttgcggatg gactccagcg tttggctcat tactttgcca atggccttga gacaagggtg 120
gctgctggga ccccatcata catgccccta gaaggaacaa cttccgctga tatgttgaaa 180
gcttacaac tatatgttac atcctctcct ttgcagaggt tgacaaatta tttggcaacc 240
cagacaattg ttagtcttgt ggaaaatgag ggcagcggtc atattattga ttttggcatt 300
tgctatggtt atcagtggcc atgccttata aagaagctct cagaaaggca tgggtg 355

<210> 28619

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28619

tttactcata ttgtttatTT aattttattat gtttagtaaga attaaatgca agctactatg 60
ggtgagttca cttgggtgag caattgagct gaaggatctt ctTanattaa tgataatggc 120
tgctcatgat agtagaacaa caatttgact acccatanac actttgacag tcaaataaga 180
aggtgaatcc atttttatgt catatatgtg agttgtgtcg acttgagaat aacacattan 240
acctogatnt gtctaagatn tgaggcggtg aggtgtgact tcaattaatc tatagtgggtg 300
taaccttggt gggctcctaT tagacataaa cctgatttat aatatataTT tgtgtaaata 360

tatgtgagtt tggacgccta anaggtgttt tatgtccac atcaattatg cgagttgt 418

<210> 28620
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28620

cagcagagat caaagtaatg ggttggatgg tcaacccaat gaagagcctt ctgctcactt 60
ggccacctat atatagatat gcgatactat taagacgtta tgtgagcctg cggatgcatg 120
cangttgagt gtactctcat tgtctatatc tgtggaaccg aggagatgac gtcattgatt 180
taatggatac agtttgatgt cacggtatga agcgatagaa aagttcttaa aaaagtactt 240
cctcgactcg aagactgcta gatgaagagc taacatctct tcttccacc actttccaga 300
ggaatcgctg agtgacgcac tctgaagatt cacagggtta ttgcttacga ctaccattca 360
caggttatca gaaccaatac aactcaacat attc 394

<210> 28621
<211> 292
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28621

actcagctgc atgtgctgct gagcggcatg ctagacaatg gctttttgac cacattctag 60
ccttcaatgc gcgctaacgn catgcacgat gaactgatta cacctcggct cttcactaaa 120
cagcactggg cgctgagtgt gtggtacaat tcttatacat ctttcattct ctgatgagca 180
tctcaaaatt tacttaataa aacgcaacat tgtgaaagac caacgttaca ttcttaatat 240
aaaactcaaa aaaatcttaa ttctatctt ttaagtcaaa aaaatatcaa ag 292

<210> 28622
<211> 405
<212> DNA
<213> Glycine max

<400> 28622

cacccacacg aaggggggag gagagatact gcactcgatc acccccggca acgaatgtat 60

tatcaaagct gacaattgaa ttacaacgg ttcaattaat ttcacaatgg ggcaatccga 120
tacaatctat tggcaatcta ttaccaatgc tgaagaacac taagagtccc agccagagga 180
gaaaagtgcc acctataact gaaatgcctg agcgtacaca taacaatgac ttggttatct 240
attacctgcg acgtagttag gatctaaaag gcaatatctg gcaaattaat ggatttctct 300
aattcataca gaacgaaatc tgatgtgggt tctagcccta acagaggcag cataacacct 360
atcgttactt gatttaaatt gctcctcgac tcaactgtata cctcg 405

<210> 28623
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28623

agcttattca ctttgcactc tatagaagtg ttagattggt gaaatccagg agcctgagac 60
aagtaaacag tctcattaag taagccattc agaaaaatat tattcaaatc taattgagca 120
agatcccact gatttgaaat ggctaaagta aaaataagtc taatagtaat tggttttact 180
actggagaaa aggtttatga aaaatcaaac ccttggactt gattcaatcc agtggcaact 240
agaggagctt tatacttatn tattgaacca ttttcgattt tttcatccta aataccact 300
ggccttccaa ttagatgaaa gaggtactag tttccaagta tgattcttca tcaatgcttc 360
acaatctagt tgcatagatg acaaccagtt tggataagtc aggcattgtc acattctttg 420
ttcacaacga gt 432

<210> 28624
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28624

tgcccagaga aggagtccac ggagganatg cttttcacat catatgactg gtttgcggtt 60
nctaatgact cctctgcagc ctccacataa ggcatagagg atgggcagct caccaagatg 120
tcttcttcgc ctgatacgat gaccagatgc ctttccacta cgaatttcaa cttttggtgg 180
agtgtagagg gaacaactcc cattgagtgg atccacggac gcccacacag acagtctgag 240

gggggggttaa tatccattat ctggaagggtg acttgacaag tgtgagggcc tatttgact 300
 gtgagatcga tctctcccct aacctcccgg cgggtgccat cgaatgcatg aaccaccatt 360
 taactcggct ttaag 375

<210> 28625
 <211> 141
 <212> DNA
 <213> Glycine max

<400> 28625

agctttatga ttatgaatca agtcgattca cgtagtgttg agcatgacaa agatgatgac 60
 ataccgccct cagagtgatt tctagatcga gtcacaaagt tcgaaatcta gtgtaatttc 120
 aagtttcatg atacgagatc a 141

<210> 28626
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28626

tgtgtgatgt tgcgcgact gacggagacc attatgagac tgttgtggtt ngacccacgc 60
 ggggtgttgaa gagacggcat gggcatctcc ttccttcctt attgcccctg ttgccccgat 120
 tcttttaggca tgcggggtctg tggaggaaac gtaatcatac tttccccttt tcaatccaac 180
 ctcgattctt tccccggcaa acaccatata cgcaaagctg gacggcatgt aaccactag 240
 cttctcatag taaaacactg gcagagtgtc taccatcatg gagatcatct ctctctcaac 300
 catggg 306

<210> 28627
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 28627

agcttataat attattaatc gtctccatca tcaccaaata agcatgtgat ttatgacgca 60
 taaacacaga ataaccaag gctattgtgc aatcattcaa tggggcaata cacaccagat 120

gattatgacg atggatgtgc ttagataatc acacaagtta acttatcact ctcagattga 180
tctttcaata ctatcatgac atgtacagaa gaa 213

<210> 28628
<211> 232
<212> DNA
<213> Glycine max

<400> 28628

taatgatgca tctaatatat gcaacagaga atttgtagca tctttacgtc gatgctcact 60
cgaagatgta actgtgtgtc tttttcttgt caagatctta tgtagtcgcc atcaacatca 120
tcagtggcat ctacatagac gcctttggac agaaagtgc cctccatctc tctctcatca 180
ttagaggatg gtggctctgg atacaagctc gacttaactc tcctgttata aa 232

<210> 28629
<211> 292
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28629

agtcttatca actttatatg tnaaaaaaca aaacagaaat tagatagtta tgaaggccaa 60
ggccacgata aaccatcatt taagtgggcc attatggatc ataattctca atccttggat 120
taatctacag accacgatct tactacagac tatccattta ataaccacac caagtgttgg 180
agcatataac tctttagtca cctgtctcaa gttaaacct ctcactcagt tcttcaattt 240
ctttactata cctatgtaca ttttctaact tgataacaaa actacagatt tt 292

<210> 28630
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28630

tatgatactc agctttatna aggttcgccc taatttctct actttttcct cacctctgaa 60
tgagctggng aagaagaatg tggcatttac ttgtggtaaa agacaagagc aagcctttgc 120
tttgctcaaa gaagagttca ctaatgcacc tgttctagct cttcctgact tttctaaaac 180

ttttgagcta aaatgtgatg ctcttggagt gtgagctgga gctgtattgt tacaaggtgg 240
gcacctact gcttattata gtgataaact tcatggtgcc acctcaact acaccaccta 300
tga 303

<210> 28631
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28631

tgagtncgga tgaaccttgt gactctcgga agacattagt agtttcgcgc gaattccgct 60
aggacccggg atcctctcga gccgagcggc ttgctgcatt ctncctcggt tcagtcgagc 120
atcttccgag ggtaacgtg atgaggcgag accaggaggt ccatgacgat atcatatgaa 180
tgtattcttt gctgaggcat atgatgagca atcgcttata caccaatgca ttatagccat 240
atcgaactta gtcttgaatg ctgattcatc ttagaccaag gcttgctctc taactcacag 300
ctgttaggat catgcgcgct ctggtaatcg atgaccggga gaggtgatcg attaccacat 360
gacatggctg acatatatat gacgcacact gctttgagtt cgatgatcaa cgtgcgatct 420
atcatcctat gtctgtaatc gatgatcagc aatcgaactt tggacatgca tatcagtagt 480
cataaccctt gctattataa ctgtgttatc gattacacta acatagcn 528

<210> 28632
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28632

ntgactntga gtcatcaaga gattataaat atgtgaccat ggtatgagtt tcanagtaat 60
tacctctttc aatctctttc aatctatctt tcaactttnt ctacaaaatt tctgattcat 120
ttctcttcat ctttctaaaa gtttttgtaa aacactttct cttccaagag aagttctttg 180
ataaaaaact tgtgctattc atctttttca ttctcttctc cctttgcan aaagaattca 240
acaaggacta atcgctgaa ttgnttttga gtctctcttc ttctttttcc aaaagaacaa 300
aggactaacc gcctgaattc ttttgtgtct ccttctcct tttcaagaga aatcaaaagg 360

acacagtctg agaattcttt agattcttcc ctttccctt

399

<210> 28633
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28633

ttgttgctat cttgtgcatt ggcattgangt atngaagaaa attgaataag tgggtgatga 60
acaaggactt tcaagtgtaa ctgttaaaat aattaattgt ggtgaacata atgaggggtga 120
gaattcctca gccctttatg gagaatacta agttctaccc ttaatatgaa atatgattat 180
atgaataatt acgagtgtaa gcagggtgcgg gtcacctgcg aacctgaatt gatccacacc 240
aacccaaata gtctggggtg cgtaatt 267

<210> 28634
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28634

tgcccagaga aagaatccat ggaggaaatg cttaccacct cgaatgactg ganagcagtt 60
tctaattgact cctctacggc ctccacataa ggcatagagg atgggcagct caccaagatg 120
tcttctctgc ctgatacgat gaccagatgc ccttccacta cgaatttcaa cttttgggtg 180
agtgtagagg gaacaactcc caccgagtgg atccacggac gcgccaacag acagttgtaa 240
gggggttaat atccattatt tggaaagtga cttgacaggt gtgaggacct atctgtactg 300
tgaggtcaat ctttccccta acctctcggc 330

<210> 28635
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28635

agctntgatg gtgtcgagat tatatcacat gtttgtcatc atcaaaaaga gggagaatgt 60
gaatgtatgt atacatgatt ntgatgatgt caaagaagaa tctaataagg ctgcttcaaa 120

tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaaag ccttgtttca 180
 agattcacta aagaccaagt cttgccttan aacaaagtgc tttcaagaca tgcaaggctc 240
 tggaatcga ttaccaggag atgtaatcga ttaccagaag acagggttga gaaatagctg 300
 ttgaaaaatg ttttgaattt gaattttcaa catgtaatcg attatcatat gtctgtaatc 360
 gattaccagc aacgaaactt tggaaattca nattcaaaag tcataaccct tcanattata 420
 actgtgtaat cgattacaca aac 443

<210> 28636
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28636

gctcgttgag tcatccaaat cattntcttt catacagttt atgatgcac cagcaataag 60
 ttcatttcca aattcacact tctatttttaa ccaaattctt gatgctccaa atgttgtgag 120
 aaagaactac agaaaacaat atcttccagg gccaatgttt gggccctatt cctttataaa 180
 tgtagttagt ggcatgaag agtttgatga tgctggacga agccggacaa atatgggtga 240
 agtagcaatt gtgatgaaaa taattaaaaa ttgttttaaa gggttgtgtg tgtatgcgaa 300
 atctcagtag tgatctatca ttttagtgta ttttcattct ccttgagaaa gactatactt 360
 gtcaaaagtg aaaattttca ttatttccac tact 394

<210> 28637
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28637

agcttgnagg attatggggt actatcacat gtggtactag gtggcagtcg ggcgatgggtg 60
 cacaacaagt tntccacatc cacaagcgc gcataaaccc accatccoct gttgccacc 120
 tccaactgag ctcacgtact cccacgtagc ccataacctc gtttctotca acaccgggtc 180
 cccatcaatc ctcccaagct tccccaacat caaagtaa at caacattcaa acagcacaaa 240
 ttaccacagc caagataaca gggcaaaggc agaaaactct gcccaaaaca ccaacaaaa 300

tcacagctnt tctcacttaa agaccccagt aacaattcct tcgatctcaa tcggtaaccg 360
 ttggatcgac tccaaaaatt tactggaagt ctatagtaca taagcctaca ttattgaccg 420
 ttgggatcta ctagtaaaca 440

<210> 28638
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28638

cactctacaa tacacacgct tctcaaagat gtacttaacc aggtccatct tggatatcaa 60
 ccatgtggta tggttcagca tgtattgtct tagacggtgg gacgcccaga ctaaagcaca 120
 acacgttctt tcgagcaggg agtagttcat ttcataggcc gtgaactttt tactcaagta 180
 gtagacagcg cgttctctct tcccggactc gtcattgtgc cccaacatac atccaatcga 240
 ctcatccaaa atcatcatat acaagatgag aggccttcct ggtaccaacg acataagcac 300
 gagaggggtc atgagacact gtttgatcct tccanacgcc tcttgacaat cctcattcca 360
 acggacggga tgggttttgc gtaagagttg gaataacggc tcacaatta 409

<210> 28639
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28639

agcttagcca ctcaattggc aagtgtatca gctgcttcct gtgtggatgc ctacgcatac 60
 acacgaacaa catcttcagt gccagatggt cgcacaaagc atcgaccttg ggggtcctta 120
 gctgtaaatg cagaagagga aagagtatca agctgcaata ttagtaaaact gaaattctgc 180
 actttaatct ttcacactaa aaggctttca tggatggatg aaactgacaa atatctcgca 240
 gtcagtgaag ttttgccaag ccacttggac ttgataacag taatagtata atcccataaa 300
 caagacacca acttttcaga gatataacat tcaattntgg tattatttat gctccttgc 360
 ctccctcact ctgcccattc ttgggtggtc acanataana gcaagcaagc aatgatataa 420
 ccaaaaaaca atggtt 435

<210> 28640
 <211> 535
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28640

acgtgcgcan tagaaaccct tgctatatac gttacactat agcataactca agctgtatag 60
 ataccctcat agtcaagagg aagaaatnga gatattggtg ccaggaatgt tagatgaagg 120
 catcatacag cctagtaaga gtctcttttc ttctccatt atattggtaa aaaagaaaga 180
 tgggtcatgg aggggtgtgta ttgattatag ggctcttaat gcaattacta tcaaggacaa 240
 cttccctatt cctactgtgg atgagttgat tgatgagctt tttggagcct tcttcttttc 300
 taaattggat ctaaggctctg gttatcnacc aaagtttgta aatgcagatg acagacataa 360
 gacaatattt aggactcatc atggccacta tgagtgggtg gtcatgccat ttggcctaac 420
 caatgcttct gctacttttc agagccctat gaatgacatt gttggtggaa tactaagaaa 480
 atttgacctg gtttctttgt gatattctgt gtatagcgct natggaaaag acatn 535

<210> 28641
 <211> 271
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28641

agctttgagc atanatcttc tacaataacc ttttactcg gaggtcggat tgagtcccg 60
 aatatatcca cacgctcgaa attgaatggt gatgctctga gctaattcaa acgacaataa 120
 cctttttact cagatgtcag atacagtcct gtaatatatt gagacgctcg atatggaata 180
 ccgaagctct gatogaattc aaacgacaat cactttatac tcggatgttc gattgagtcc 240
 cgtcatatat cgaaacgcaa gaaattgatt g 271

<210> 28642
 <211> 182
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28642

actcagctta acattcaata tcgagcggtt cgatatatta cgggactgaa ttatacatcc 60
tagtnaaata gtactgtagt gtgaagttgc tcagagctta ccattcaata tcgagcggtt 120
cgatatatca cgggactaaa tcatacatca gagtaaaaag ttaatgtcct tcgaattatc 180
tc 182

<210> 28643

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28643

agctgagcgc gggctctgtga cacacacgaa cattttccag gatttgccaa gacganacac 60
caaggccggc ttagaagata atagcgtgcc ctccagactg ccacctaggg aaactggcta 120
cagcatgaac gctgccgcat atacgcaacg agcctaattgc acagcttgga aagaccatgc 180
gctgtataat tggacctagg cagtaaaagt gttactgggt gtaaagcgtt gtgactctng 240
ctacggattg atagacctac gagatttgat catccgatac aggaattgcc cagtcattgt 300
cgtacgcgag aaattacctc tgcgtacagc ggattcgtga caagtccctc ggaggtgcca 360
aacctgagac cgctgtcgc tgtgaggaga attgactcta aagctatcaa ggcacgatga 420
tctgaacttc ccctgaccga gactgatggt caccgagagg ccggaaaagc cg 472

<210> 28644

<211> 505

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28644

nttgaacctt gagactctag tactaccggc gaattgcgct acgaccggg atactctcag 60
tcgacctgcg gcatgcaagc tttgggtttc tgatcacatg taggaccacg aggccgagga 120
gattaaagag ccatcatctt tctcgatact cgcaaatgat acagaattta caattctttt 180
ggttaacatg attatctttt ctcaataagt gacgcacatc ctgtaaccaa tttattagct 240
acggcagggt ccacattgta cacattagtt tcggaattat ataaatattc attaaaaaac 300

ctattcgaca ttcgacatgt ctgtctacga atcacagtca taatattatt tcttaacaca 360
 tcgtgaaaac gctactgaac tctcttatag cactcngttt aattcattcg aaccatattg 420
 tttaggggtga tcgtactcca ctattaatcc cggttatatt tactcaactt gatattgact 480
 gccatctatc tttactatca atacn 505

<210> 28645
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28645

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 aacctacgcc aaagaggaag aaagagtttt tagatattca agcagtcacg tgcataagga 120
 gtgattgatc aatgggtata caggacgcga acatttagtt gcgtgagtca tgtgtgttac 180
 ctctgaagca taattctcta tatatatatt ctctcgtgca cactctatgt acaaagaact 240
 ntgccctata ccactcggat catacgaagg aaactaatgt tgaactagaa tggatgccct 300
 atttgatcgt gcctgtgaat ccttaaactg cgagaaacat cttgccggat ctaccogaac 360
 tcattactca catggctacg atctgcctcc ctggacgtgc gtcaaccagt tgcgcttgct 420
 gtaatctgga tcatgtgaca ctattatagt tacttgggtga acacataatc accatatgat 480
 aatcctcaca ccttcogtta gtgcatgact tcacctcctg aggctgtata cactcccg 538

<210> 28646
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28646

agcttggact gttctangga gaaaaaaaaa caaatgacca aagtgaacca agagccattt 60
 ctagggcaaa attaggtggt gaagagtcaa attttgattc ggtggaattt taggtgtaaa 120
 tccagtttga gaaagtttag attgatgtta tatacttgtg tgaggtgaga gtttgctcca 180
 aatttacctc attctcaatt tcacttttca aaccttgaaa atccattaaa atgagggggt 240
 ttggacacct agatcttgtg ttgctgtggg ttgaagcttg actttgggtt agacatgatt 300

gatacatgat atgggacttg tacgatgtga tttgggcaag attggatgat gggaagtg 358

<210> 28647
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28647

ntgcgaatnt ggtcttcgtc ggggaaagga tctaaacggg tcttataaga ggcaaatntg 60
atcatctttc tttgatgaat gagaaaactg ggacaaatga agaggatgat aatgaggaag 120
gaactcatgt tgtggctgcc attcctacat ggccaaactt cccaccagcc caacaatgtc 180
atcgctcagc caatatcggc ccttctcatt acccatcacc caatcatcca caatagccat 240
ccccanatca gcaacaaggc atgcctgctt accacacgcc caatgcccaa acaccaccta 300
ta 302

<210> 28648
<211> 353
<212> DNA
<213> Glycine max
<400> 28648

agcttctagc tcttatggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60
gtttcccttt ccttgttttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
catatcctta aggaattctg gagctttgga attgttttgg gaataagtgt ggggggggttt 180
ttgtttcatt ggacgactcg ttttgttggc tatgcttcat gatgtattta gcgccatact 240
tgatgtacat tgtatattgg ttaaatgttg gacatgctga atgaaatgtt gtttctcaaa 300
ggccaaagag taaaataaaa aaaaataata taaaattccc ataaaaaata ttc 353

<210> 28649
<211> 271
<212> DNA
<213> Glycine max

<400> 28649

ctagccttag gttgttcact atgttgetca tgttgctccc cctatctcta acaatatgcc 60
ttagtgtggt ggaaccaagt gaggagtgat gttaagagga tgagaaggcc tttgattcat 120

actacgcaag acatgaagag agttttgaga gagagatttg tgtcgtccta ttataagaga 180
gaccttcaca acaagctcca aagactaatt caaggatata ggagtgtgga tgagtatttc 240
aaagaaatgg agatttcctt gattatgact c 271

<210> 28650
<211> 169
<212> DNA
<213> Glycine max

<400> 28650

acctgaacat attgacacta ttcgggatct gttaatcatt ttttgtgaga atgtacctcc 60
ttttactgca cgcacaaatg gaattgtcaa acattctgaa ctgatccaaa atctatgtct 120
tgtagacgcc aacacgttgg tgttcttttg ctgtggtctt gctattaca 169

<210> 28651
<211> 243
<212> DNA
<213> Glycine max

<400> 28651

agcaatctat catatacgac tctgacttgt tctacttgac tattcttgta aggaatcagt 60
aattacaggt ttttattatt attgaaaatt actatgttat ggggtgtattg aaaatcattg 120
tgcacatgag ttaataatgc tctctaataa atatattttt attcttaatt cattaactta 180
acatgtgtaa gttttgcatt ttaatatcat ggtcggagag acctaaactt tcttttttac 240
att 243

<210> 28652
<211> 297
<212> DNA
<213> Glycine max

<400> 28652

agcttcttat tcaaggetca tcttggtggc gaagctcctt cttccatgac ttattcccta 60
gtggatggcg ccgcctotta ccttttctcc tttgtcttcc gctgcatcta catgggtggaa 120
aatcaccact aaaggacctc attaaagctc aaagatccag cctccataga atctccacaa 180
gcaagcttcc atcactgtat atcagctgcc aaaagttggt cgacttgtga acaaggtgaa 240

tgtttatacg ggagtattgt tagataatcc attggaataa ctaattaggt agttatt 297

<210> 28653
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28653

atggctagac atgatatatg tcanggcttg gtttggttca aggataaaag ggatgccccca 60
cattattggc atgacacaaa tgcaaaaaat gatgatttgg aaattttatg caaaactggg 120
catgcatgca cctatgcaga cggttcaagtg tcaaattntt atggtcatgt gatgctatgg 180
ctcaggattc atttctctta ttttaaatca acccaatgtt tccaaaatat gttcttttat 240
caatatgtgc attcctccaa gtccatttcg agcgttcggg gaaattntca cagcattcac 300
ccttcatgtg tagacacgtt ttttcttcta aaatcgatta tgatcaatga aattttttc 359

<210> 28654
<211> 313
<212> DNA
<213> Glycine max

<400> 28654

tatcttgagg tatagattgt ctctgtaaga gcaaaaagtg gcaatgaaaa atatttgtaa 60
ctcttgataa gtccgtggat acttagcatg ttgccaagaa ctagacgtaa tctgagtgt 120
aagactaacc aatataactt cctctattta ttctatactt cttctttttt gtgtcgaatg 180
aaaaacggct cagattagtt gttagatctt atatttgatg aagcctttct taaatatctc 240
tatttgtttt tagtaaactc acgtcagatg ataatgtgtt tcaatcaaga acaattttaa 300
attcgaaaac ata 313

<210> 28655
<211> 258
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28655

tgaggatgtn tgtcacacag ttgttatatc actagataat cattagactc acaacgaata 60

aagtgcata gcgctgtcag tttatatattg acgaaagaaa cttgagcgaa ttgagtaaac 120
 cttagctctg ccaagtttagc aagtttcatt gtattcaagc ttattgtgta cacattcttt 180
 gagttattag aatacatTTTT ttgtcaaaca tctatggttt gtgaaagcca cgagtggggt 240
 cgtgacaaaa gatacttg 258

<210> 28656
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28656

agcttggaga tttctcanac gaagaccaag accttgttat tcggctccac aacctccttg 60
 gaagtaggtt ctttcttaat tagaccaatt cttatatcaa caaatactat atacactata 120
 ttaaatacag tactccatca gtgtttttaa aggttgattg caatagcgca tcaaaagggt 180
 acggatgatt cattaaagtt catttggtga aggtgaaaat ctggtccatg aaaactccag 240
 tagtgatcta atcgacttct caagcatgta tgaacggatt gttgcagaag atgatttttg 300
 gtgtaactnt ntcttttgcT aatactgtgt ttgatctatg cactccttaa ttaaccgagt 360
 cttttcaggg tttntTTTT gctgtgatn gggttgtctg taaaacctgt atcctctgca 420
 naaccttttg atttttgaca at 442

<210> 28657
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28657

tttaagcata agttagtttt aacttataga agaattttat tntattatac catcttattt 60
 tcttctccta taagtactta tgaagaagtt tatccatagt ccgattgaaa taccagaatc 120
 tgcaaattta taccacaaac ctgatgcctg cccggattcc actagtccaa tcttgtttgt 180
 agcacataag tcttcctttg aggtcattct tgatcccacg taagggaaca aatgtttctt 240
 ccatgaaggt attagaatat caagggatga atactggtct aagttttggt ttatagaana 300
 tggagcagaa gatatgagtg gaagatgggt aatcacttca agggagtct 349

<210> 28658
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28658

agcttgaagg gtcattccaca tttcctagtc ctagtgtctc ttctaacaaa ttctttcttc 60
 ctacacctat actcgccact cctttcacaa ccaattaaca caaacgaagt ccttcctcta 120
 ctaccagtgt ttgtgtcaaa ccttataatc accgccacaa atcggttttc ataagcaatg 180
 gattgatccc accgcanaac atcctctcgg ctatcaaaca tgtacaaagc aatccacatt 240
 atttcagttg tctacaacat attcattnta ttaaactact cacaatcatc aacattatta 300
 cctgagaagt attgaacgct tccgaacaat cgacatgtgg ttcattcaca ccacattctt 360
 ctttattntc ataatccata ttcactactt cagacattat acttgtatac atccactgat 420
 cttegtctac gtccatctta ac 442

<210> 28659
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 28659

agagctcgct gttgctgccc cacaacaccc ctcagaactt gtttctgctc cattcttctt 60
 tttggggcct ctgtgtttcc cattccaatg cttcgacggg ggccacattg acgtctctca 120
 gttcttgaca ttcttttcag accttgataa ctgtcatctt caacttttcc ttgactgctt 180
 gctgtcatal cctaatttcg tccggggatt attacttggt gacatgcaac ctttggttag 240
 ccgctttgag atacttgggc tcctttgttg cacaataaat gaagtcccga gatgtgtcag 300
 aaatcaaaag gaagcaggct tgccgcatcc gtgaaattcc gtaatgtggc ggaaatcgaa 360
 aagaggtgtc tttgcgcaat tcgagagttt ccgtaacttc ttcgaaagct agaaaagagt 420
 agatacataa t 431

<210> 28660
 <211> 421
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28660

agcttcgctg atttagtttt caccgacgaa aggatcaaag caagtatgaa aagaggcaaa 60
tctgatcatc atgctttgat aaatgcaaaa aaaactaggg caaatgaaga gggtgagaat 120
gagggagaag cccatgctgt gactgccatt cctatacagc caagtttccc accaacccaa 180
caatgtcatt actcagccaa taataaacct tctccttacc caccgcccag ttatccacaa 240
aggcaatccc taaatcaacc acaaagtttg tctaccgcac ttccaatgac gaacaccacc 300
tttagcacia accaagaaca ccaaccaaga aatgaattnt gcagctagaa agcctgtaga 360
attcacccca attccagtgt cctatgctga cttgctccca tatctatttg ataattcaat 420
g 421

<210> 28661

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28661

ngaacgatct ttactccac atgcataaga ttcnccagc taagttatth gcctgcggca 60
actcccatga nacatcanga tctccccaca ttgtctgaca ccacgnaatt tctattgtgt 120
tcctcttgat ttctataaaa catatcatat ctgcattntc ttttttaact agtcgcctta 180
ttgtgacca cttgaccccc ctccctaate ctctcacgtt gtaagtgata atattcatga 240
tgtactgggt ntgttcccc ctttctctgc taccttgctg tctctttcct ccatgttcat 300
gaatntctcc accatthttcc tctaattntc tattccagat acccncagct agtttgctaa 360
ctcccataat tctt 374

<210> 28662

<211> 169

<212> DNA

<213> Glycine max

<400> 28662

catgctagct acatgtcttc gtgctgactg ctactcttgg ctgacagata atgaatgatg 60

acgatccata ttaagcatga cattctatta atatacgaaa tttggaatct gaaagaacta 120
tgtttcgtat aaacaatata ttaccgactc tcgcataata tataatgac 169

<210> 28663
<211> 280
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28663

tattgctaaa tgctaataca tcagcaattc tcacagaaat catcttggtc ctgacaatgt 60
tagaaaccat canaccatgg ccatatataa ctgtgcaagc atgatagaaa acaaattata 120
aaactattag aaatgaatga ggaagtntga caaaataata agacaaatac cttttcattg 180
tatatacgaa agccttcttt gactactgct ntagtatcat ctgaccgagt aatgagctnt 240
gacatacagt gtgcaggaag aagaagtgga gccatgacca 280

<210> 28664
<211> 307
<212> DNA
<213> Glycine max
<400> 28664

ttattatctt taatgaattg caatcaaagg aactcaatac gaatgtgggc ctagtcacat 60
gataaaccac cctatttagag cgaagatcgt atcatctctt ctaccgacga catattgcaa 120
acacaatatt tagaagactt ccaactgagtc taatagctag ctcttaatga tcatttctaa 180
atgggtctct tcaaatagata catttcaaac tcaatgatag catgctggca tctatggaga 240
tgagcactta ttaagatcac tacctcatcg acgtcgtaa gatctgtgat gaatgtgtgc 300
ctaatga 307

<210> 28665
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28665

agcttcaata gacatctata gagagncaaa attgggtaac tatgctggat gcttggaagt 60

aggaacacat cataatgttt acaacctatt cccttcttgg cttgatctca tacagatgtg 120
 aacatagacc aatttgtaac actttgtgat tatagaaaca aacaataaga ttgcaacaat 180
 ataaaattat attctatgaa caagaataaa ttcaagtoga agacatgaga attatagcat 240
 ggagaactat ctaatagcaa ctaaccaacc aatctcttga agcttcatac attagtagcc 300
 ttcccaactc agccattgca tgtcctacaa cattagaaac tagaagagtc agttcta 357

<210> 28666
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28666

agcttttagct ttttaagatcc cgtcacacga cctcgagtcc tttggataac aatcagacaa 60
 tgcataacca ccctccatac acatgaacac cacaccccaa acaccatana cccttccgaa 120
 ctgcagaaat tagatggaat aagacctact ccagactcaa tatcctgcta tactacacat 180
 catacgatca tcacaccaac atgccaaaga atacgtacta ccgcctctat tatttatcca 240
 ttgccaaagac attatcttca ccaaataag atctcctcta cctcttgatc ctttctgtg 300
 aaaat 305

<210> 28667
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28667

ttcttgtgtc gagcagatag ccctaanaga gataatacac ntgtattatg aaactaaagt 60
 taggcaaagt aaaatatgaa atagtgggta ttatggtacg tttcttggca ttttgctata 120
 ttaaataatta acaaaaattaa gttatgtttt aaataataat tcgggttgaat gataaagtaa 180
 agcttatttt tggaacata taaatatcat atatttcgaa catacatttg agtaagacat 240
 aaagtaaaac attaagcagc aaatgttgn tttttttaca caaaacaatt caaagagtta 300
 agtaagacac cactagtttt acatgcgtaa aaacaattat gtaataggac tttatgtttg 360
 attctattgt gtgttaaaat ttcttggatt atacgataaa a 401

<210> 28668
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 28668

agcttgtata ttttcccaat ttatgggtat tttgtagtga ttattgtaaa taaatcttgt 60
 tttatgggta atgttgtctc tagaacattt ccattggatt taatgatgaa atctgtgcat 120
 ttttaggtga aaaagagact aattttctgaa ttgcaaaatg tagcagttac gctaagctca 180
 ttagttgggc taagcacata ttcaccgtca agcgcagctt cagcgcgctt attgcaaagg 240
 agaatctggc agagcatcaa catcaaattt gcatgctaag cgtgagatca gtgtgctaag 300
 cgcagtaggt gccttc 316

<210> 28669
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 28669

tcgtccacag atccctcatg taagactaag cttatactaa acagtattat tgtaacagca 60
 taattaaaac caaaacttaa cccatagatc cctcatgtaa agctaagtgt taatcctgct 120
 tcaatcaagt tctaaggcaa cagtacattt tccaatgcta aagtcaccta actgtgcaca 180
 taaatgggtg atcagaccac aagcatacaa acattaagca tttaaaggaag cattgaacac 240
 agaaaacata atcaattaga tattaagtat ttacatcagt tgttcattat aaatcccca 300
 ctagggtggt taaccagcca ttacaaagaa actctcaca tgaatgagac taaaaataga 360
 gaatgatagg tccttacac 379

<210> 28670
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 28670

agcttataat gtttaactat ttagtatgac atattaaatg tgatcttata accaccacag 60
 cataacaaaa tatacagatc aaaatttaca agacattttt tactgatgta agaggtaaga 120

atgtaccatc tgactctgaa atgttattta gaaacctata gataaaaactt attctttgca 180
 taagtaatgc cattacacaa aaaaaaaaact tggactaggc aacatctagt cacggaataa 240
 gttcaactat caaaataatt ccgaattctc taattgcctg tgcttttagca caagaatgtc 300
 ttcacattat ttctgccaaa aaaac 325

<210> 28671
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 28671

tctacctata tggaaaatat atagtcattg ttggacacat atattctata ataatatgag 60
 tatatatattt taaatgtaaa agaatgggtt cgtgaattga aaactgattc ctaaagtata 120
 cttaagtaaa tatatatcac atacaacatt acaatctaca atgagttggt gcagccgcat 180
 cactaaataa atttataatt tatactacga gtcaggatct tatctatata ttaaaaacat 240
 gtatgactgt acactacata tattgaaaat gcacactaca tggaattcat agcacaattt 300
 aattcaatat ttataccaca atacaccaca attcaaccag aaattactac attataattt 360
 c 361

<210> 28672
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28672

agttttataat tattagtctt ataatngcat aattgtctaa ggtaaaagtt gtaagttact 60
 aagtcaacgt tgtgagttat gaagtcttgt agttttccat taacatttag tatcttggaa 120
 caaggtatta agtatattatg tgattagtca aatgatcact ctattctagt ataaataggg 180
 gatcactactc ttatattoga tatggtaaag aaataagact ctttttttca acatatgcat 240
 atatttccgg tcaactgctaa cttgctaaca aaatgcttgg ctacttttat gatacctggt 300
 attactatta tgggaacatt ataactttgc tcanatatgt aaatttatgt cagtgattat 360
 gatacactat tttcacttta caactggtgt gatctgtata tcaaacaatc tctcttccat 420
 tcttatat 428

<210> 28673
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 28673

taagttctag aagagcattc atccttagat ctttcctttt ctcttttatt ccagcttcaa 60
 ttacttgcct ttacattta aggcacttag cttcaaataa caaccacat aacctttatt 120
 cttgaacttc attctttttt cctttttttt tatttttagca gctgttattt gctgcttctt 180
 tacaattttc tatgtgggtg taatttgtct taccactctt attgtcacc c aataatcttc 240
 cccacatttg ggacaaat 258

<210> 28674
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 28674

atcatttgat gtgatgtgac ttttcagaat attgttcaaa aattctctca ccagtaatcg 60
 attaccactt cttggtaatc gattacacaa ttatgttttg aagggtcata acttttcaaa 120
 gataactttt gaaatctcct cactgggtgg tategatcat tgcacagaa attcagattt 180
 tcaaatccat ctagaacaa tttttatgca atgtgtctat agtaatccat tgctatactt 240
 aggtattgag taccactgt 259

<210> 28675
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 28675

cgtagaagaa gcttgctgag gaatgttttag atagtttgag atgtatgaag caatgaattg 60
 catagaatga atcaacttac aaagttagtc atattagtga cgttatatat gctagttaac 120
 aagagtcgac taagttataa cgtaactcat taactcttgt gacatagaga ttagccaact 180
 aaaataactc taagttcata ataatctatg ctaagaacac ctcatttggg tttacgatat 240
 actcatggct ac 252

<210> 28676
 <211> 250
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28676

ttgctttact ttatttagaa tcaaaganaa gggagcgagc agatgggtaa agagttgata 60
 ttaatcgctc taaagatcct taaagagaat gggcattatg ttaactcggg caaggcaata 120
 ctgggcgctg tccctgaggt tagagctcgt gatgaataac aatatatggg ggagcttaat 180
 ataataaggc cttcatcgtc ctattcacgg tggcatctat tatgtcaagc acaatcgtea 240
 tatecttgca 250

<210> 28677
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28677

aggtgactcc catcttgtgc aagcttaact ctttcagaaa ttttgaagag gcgaggaatc 60
 cagtgggtccc agggtagcaa ttgctttctgc aaagcgagat gaagcagcgg cgataatatg 120
 gatgaatagc ataccgtatg acgagtgacg ggaanaccac acaagcagct taccaaataa 180
 gatgagcgtg cttaacggcg cgattcgatc gcaattgaac gcactatatc cgtatgcttt 240
 ggaaaccagg atgatgctac cgtctgcgcc aaagagaggg ggcaacatct ctgtcaccc 300
 tgagccacag atcaccggag tgggtgcgact aagcattccg tcatattaca ttagggggcg 360
 cactaataac aaggactggc catcggtgat gaggcctct tccattgtgt cgacatataa 420
 gacatgccag gagtgttgt cctaattctag aaacaacaaa ggactcc 467

<210> 28678
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28678

tgtcattcat agtgcacatc aatcacttaa gtacattaga aggcaaagca agtta 415

<210> 28681
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28681

acactatnca agactcgagc ttcccacaag catgtcaata gataaagaat aanattgcga 60
 atattcataa taagttgtca cacacaatcg taacgagaga atttaacatg ctaccaccca 120
 cgtgcaaattg tctatcttcc ccagctactt cactttcacc caggtagcc aagaaaatgg 180
 agcataataa ttgaataaca tccttccgaa cctcctggtg caagcttact gaggaatgta 240
 tcagaacact ggctgctgca agtcgtgatc tgcaaaaaaa caaaagcatg cttgaaagag 300
 gtttcacaaa tggcttactg ggcattgaaa ttcattaagt ctaaccactt gataggagat 360
 acacatcaag ttaatcgagt ttcaatattt tatgcttgat agggtttcac aaatgcttga 420
 ctttaattatc aactcaatct accgacatta tacttcatac at 462

<210> 28682
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28682

agctttcagc ctattcacct cgacaataac tttntactcg gatgtctgat tgagtcccg 60
 aatataacga gagcgtcgaa attgaatgta gaagctgtga actagttcaa acgacaataa 120
 ctttttactc ggatgtctga ttgagtcccg taatatatgg atacgctcga aattgaatgt 180
 tgaatgtcaa agccaattca aacgacaata actttttact cggatgtttg attgagtccc 240
 gtaatataac gagacgctcg aaattgattg ttgaagctct gagccattgc aaacgacaat 300
 aactatttac tctgatgtct gattgagtcc cggaagatat cgagacgct 349

<210> 28683
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28683

gcttaacatt caatttcgag cgtctcgata tattacgaga ctcaatctta catcagagaa 60
 naacggttatt gtcggttgaa tttgctcaga gcttcaacat tcaatttcga gcatctcgat 120
 atgttacggg actcaatcag acatccgaga naaaagttat tgtcgtttga attagctcag 180
 aagttcaaca ttcaatttcg agcgtctcga tatgttacgg gactcantca tacattcaag 240
 aaaaagttat tgtcgtttga atttgcacag aggatcaaca ttcaatttcg agcgtctcga 300
 tatgttacgg ngcttaatca gacatccgag aaaaaattat t 341

<210> 28684
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28684

agcttgaagc ccttagtttt agttttgggt taataatttt gaaatgtcaa acatgtttta 60
 tagatgtggc aattgtcttg aatgttttag actangcatg tgtgtgatat agtctaagtc 120
 tttttaatac ttagttttga tcaaagttaa agtgaatgaa gtattttatt tctctaagtt 180
 tcctaagtac aagcaataga acttacttct acttgaaatt tggttgtaac catcgaatta 240
 attgattgcc tagcttggtg attgagtgcc taagccagat tcaaaagaag gaaggatgta 300
 tagcttanga taattgactg ctctgttttt ggaaacaatg agaagttctc tatgtgattc 360
 tacaatctat taccacatgt gacaatcaac taccagata gcacagaagc aatagagata 420
 ctcaaactga aaca 434

<210> 28685
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28685

tatcgtaacc gattacacca atatttttga gacaatgatt gatttttagg agtctctgct 60
 ntaatccatt accagtagat ataatcgatt acttctctct tannaagtgt ntcagaagtg 120
 atcaagaaca cttaaatcaa ttacatcnaa aatctaactg attacatttg tctttgaagt 180

tttccaatnt ttgggaagaa cactntaatc aatcanaatg gtaataatca attacttctt 240
 tgaaataatn gattacattg tataatntaat tgattacagg cagttattac gagctgggtat 300
 aagctagaat aacattatta gaaaatatgt tttttacatc gggtatttat gactntcaac 360
 atcngttttt aaaatcgatg tgaaagtacc gaccgtgata gtattattgg taacatcngt 420
 tttttaaaac tgatgttacg taaaa 445

<210> 28686
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28686

agcttccatt ctgagagca tttgttattt aagcatttca gcctttgctt tcgtgtagct 60
 taggaaaaac gtcatttctt cttctttctt tcttccaaag tcattttctaa agttccaaga 120
 acatttctca tcaccacat ccaccattag caaccacaaa ccatcattgt tctccattga 180
 aaaccacac cgagaggaac ctttcaaccg aagcggaatc ttccaacttg gcttgcggtt 240
 ccggtagaga atgaaaacc taatctgacc tttcatttct tttcgaggga atcatggatc 300
 tatgtttggt acttgtagt ttcattctgt ctntgcatct tttctgactn tggaaccgcc 360
 attgcatgtc ttatgcttcc tttgaacaac catagagaaa g 401

<210> 28687
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 28687

atcttatgat gttgctaaga gagtcatcaa gaatgtaatg cttatcccag attcgaagag 60
 aaatgtgatt tctctgagt agtttgacaa acaacgctat gtgttctaag aggagaatgg 120
 agttctaaag gttctaaagt gctccataat attcatgaaa gggatgcata agaatggctt 180
 gtatttcttg attggagaag tgatgactgg atcagctgtt gcagtttctg tcaaaagggt 240
 gtcatagact gaactatggc acagaacgtc tggacatgtg agtgataggt gggtgattgt 300
 actggga 307

<210> 28688
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 28688

tgccacaagc atatcaatag ataaggaata aaattgctaa taatcataat aattgtcaca 60
 agagtgttaa cgaagaaatt taacatgcta cccaccagtt gcaaattgtct atcttcccca 120
 gctccttcac tttcacccaa gttagccaag aaaatggagc ataataattg aataacatcc 180
 ttccgaacct cctggtgcaa gcttactgag gaaggtagca gaacactggc tgctgcaagt 240
 cgtgatctgc aaaaaaacag aagcatgctt gaaagggttt tccaaatggc ttactgggca 300
 ttgaaattat aaatctaacc atttggatgg aaattcacat caaggtaatc gagtttacia 360
 tattttatgc tt 372

<210> 28689
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 28689

agcttaagat taatctcaaa gttgcaaaag tacaaccttg taagagactg agtatgtcat 60
 gcaaagatga tttacatttt gaatcttgct aaaagggaaa acaagttaaa aaactctttt 120
 tccagtaaaa atattgtttc cacctctaga cctttagagt tgttacatct tgatctgttt 180
 ggcccaacaa gaacaacctc aatatgtggt aaaaggtatg aacttgatcat agtgaatgat 240
 tactttaaat ggacatgggt aatgtttctta gccacaagg atgagtcttt caaggatcat 300
 taaaaatttt caaaatagat taaaatgaaa atggagcatt gtcgcaacct acccttcgtc 360
 gggagggcga cgcgagactc acgggtgcat cttccatgg 399

<210> 28690
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 28690

ctataagcgc ggggtctggga gacaaaggctc aagcggttcgc gatatgagag gatgatattc 60

cgagtacttt ggatttggta cgaccatgcc ctcttgattt ccagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaaag 180
 ctctataatt gggcctagga tttagagtgt ttccctttgt taaggctttg agtcttttgt 240
 ttatgaattt ataatacaag gatctttctt catctggtcc tggctctctac ccattctcat 300
 tcatttgcat 310

<210> 28691
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28691

agcttgtcta tctatggaat ttaacatcat atatcatcga ccatatatct gctaagaact 60
 aagggtttgt ctctatgcct agtataagga taaagtcttc tgcagtaaac tacctcgtaa 120
 tttagagcta catgacataa tttatcaaat tcgattaaca aataaaatat tttgagagta 180
 acactttgcc ttcattatc attttttttc attctctcct ttttttctct tanaaaaatc 240
 aatacaccaa tagccgacaa taattttaga attgcatttg gtttggttaa catcatgatc 300
 aatctatgtg atcattgagc gttgggtgaa attcggttaag aatatatata tatcttttat 360
 tttattactc atttatctat taatgcaaaa tatttattga tcttggttat c 411

<210> 28692
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28692

tgctagaata ggtttaatcg cagttcagtt atatcagagg cgctcattn tttatttntt 60
 tttgctttcc cattagtgt taattttatt tcatcattgt gagatgttat atctgttttt 120
 tggctgtaaa atatgcagat gatcgtgagg ttagtgctga ggagtttgtc aggatggtga 180
 acaataccag ctaccctcac taatcgtaca gaaaatntaa acttannaat ttaaaagaaa 240
 aaatgaagct atactgttgc taattgtacg agctgtatga atgattccca tcatgaggct 300
 atgacggtat tgcctatgaa atacattgat gttaccata ttaatttggt ctattctact 360

cattttacttt tgttctaatt

378

<210> 28693
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28693

agctttctccc ttatttttcct attaataagg ggagaggtga agggaaaaaa tgttcagccc 60
tcctggtaatt tcaagatcac ttgaaattag tgaaaaaaat tggttccgtg aagataatcc 120
aagccaaggc gcttttcgtaa cgattctgcg ggtgatttcg cgaagattat caaccgttct 180
tcgacgttct tcgttcgttc ttcgctgttc ttcggtcttc aaccggtaag ttcttgaaat 240
cgaacttttc aattcatttt atgcaccctt ggtggtcctc atatggtggg tgtactatta 300
ttctcgtttc attacttttc gtaccactt atgacgtgtt ntagtcatta gcttacgtca 360
tattctcgcc tagtcacaaa ataaaatata tattcacoga tcatttg 407

<210> 28694
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28694

tctaattgtat atttctagac cgaaatccaa ttattaacat ctattgcctt aatgagttga 60
ccattatttg accaaaggat tntcattgaa ttatccttat tctttctaga ctttaggtta 120
aaaacttaag agcttaacca tgctttgggtg tcctatggta acatctcttt ttctatcatt 180
tcaatagtct aacaacacta ttcaatcaca caacatagca ataacattgt ctaccacaca 240
cacatgataa attgggatgt tacagatggc tcgttcattc tagcatttgc tctactaagt 300
aaatgt 306

<210> 28695
<211> 433
<212> DNA
<213> Glycine max

<400> 28695

agcttcgaga taagttacga gacaaactaa tttcgtcact caaggggtgac gcaatttaat 60
gctagtcact aagattatga ttacatatca tagtatgtca ttgttaatga aatgagttga 120
gatgtttctt tcgaaaaaga aaaaaaacta tcttaaaaca gacttagatt tagattttgt 180
acttgtgtgt ttggatacct tagagaatcg attttaacaa caaaaatcac ggtgaatgat 240
aaaaaaaatc ataaacaaca aagaatagct tcaactacaac catgaataca aaatcgatta 300
tgcaccacca catcgtgtat taactttgct tatatcgttg aggcggtact ataattgcac 360
tacattaaac tattattaat ctttgtttat ttgtgctcca ccagatctac attatgtggc 420
attggagaca cca 433

<210> 28696
<211> 300
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28696

tgaactactc tctgtaaata gaagctagat tgcattgctaa gcctcacatc ttatgctaag 60
tgcataatttc agaaaatttt gtgttgcaaa aagcactaag cgcagcctgt tgcactaagc 120
cccagatgct cactggaata tgaaacttca agttgggctt atcgtgaggt taggctaagc 180
gcttgggaata taaactcana tgtcacgtgg gcgcgctang ctcagctgtg agctaagcgc 240
gccatacgaa tttcaggttt taaaataaaa agctgaagca ctttggggcgc tatctttaca 300

<210> 28697
<211> 347
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28697

agctttaaga atatttgcaa catcgttntg gatatttaac aagaacattc tatttcttga 60
cattggtacc ttggtaatta gattatttct cccatctctg atggaaagac tagaatcttt 120
catgtgaata tcatagcctt ttttgagtaa ttgtcccaaa ctcacaatat tgttcttcat 180
atttgggacg tagtagacat ttgatatgaa ttcattgtctt gcaccttca natggattat 240
gatcttacct tctgtctttt atacgaatct tggaattata acagattatg cattgccact 300

tactgactca tcaagatcca cgatcatgct ttcttctcac acatatg 347

<210> 28698
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28698

tcaatgttaa tatcacatca gataatgtca aaaaccgtat catattatgg atatcgtggt 60
 atggtattgt aagtgcacatc cttggccaga gtggggttga ttgggatggc actaagcaca 120
 tgatcacagt tgagaatgaa aatgcttgga gtgaatattg cactgtaagt attctttaat 180
 atgttgctat ttgttattca aagtagattg gatntgatgt ttattctttt ttttcagtcg 240
 cataaatcgg ctaaaccgtn tcgattcgag gtgcttcaaa actgggatga tatagtggat 300
 ttgtgtgcta aagatagagc cactagtcac aaagctgaaa tggatatggat gctgatgaag 360
 cgatgagtag agaaacaaa 379

<210> 28699
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28699

agcttgtaa ttcgtggaag ctccataat ctccacact ttttggggtg ggccattctt 60
 ggatggcctt gattttctca aggtccactt ggacccatt tctacctact acaaaactta 120
 agaaaactat attatctaca caaaaggtag atttctctat atttgcatag aggggtgtttt 180
 tcctaaggac tgaaagaact ttcctaagat gtcctaagt atcatctang ctctactgt 240
 atactaaaat atcatcaaaa taaacaacga cgaatctacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
 attcatacaa accaaacttg gtcttgaaag cggttttcca ctcatcacco tttntcatcc 420
 tgatttggtg ataaccactt 440

<210> 28700
 <211> 384
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28700

tctcccncaa ttntctataa atagggggag aagtgaagtg aattatggta agtacctcga 60
actaagctnt tegattcatt ctatgtaccc gtggtggtcc acattgtggt tcgtgtattt 120
ttattctcat tatatttact ttctataccc ccttttgacg tgcttaagcc attttattta 180
agtcatttct cgcttaacct agaaataaaa taaatttcca ccgatacgtt gaattgtatt 240
atctgttaac ttcggttaaa atgaattccg accattcgat cgtgccgtaa ccacgttgga 300
aatcaaaaag aggtaaaata ataataaat aatgacaaaa tgccttctag taaaataaag 360
cgaagaatca attggacgtt ttct 384

<210> 28701

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28701

cgcaagcttg gagtttgctc ataccaagtn gagtcttnt agtgtgaagg agcagaaata 60
tatggaataa atagaagtat gtntaccttt tgctaacaat ttattgatac atgagtgtgc 120
ttttaacgtt gaagtaaaca taaagttgcc tttgatttag ggttttatgt cccttcttgc 180
ttatgagaat ccagtggaat gcccaatgtg tcatctgatt ggcttagact atcggcaaca 240
agttgtggat agtttgacat aactccatat gctcgacaaa tgtagtagaa tattcttgtt 300
tatcaacaat tcaattatga atcaatcaca acgagttact tcacaatatt gaatatattg 360
tgggagatga tgatgtggta caagttcaat atattgtagt aggtttggac attgtnttat 420
gtgtagctca tatattt 437

<210> 28702

<211> 225

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28702

gttaagatgt gctcatttgt ataaacaaca tctatatata ggtttagt caagctcacg 60

ttaccacaag ctgcaataat atgtgaacat ggatagtga ggcagaata ccttcgcat 120
 tgacaataat gaccatncac gtaaactgcc catctttgtc cgccacgttg ggtaatatga 180
 ttgaagggtct cctctacttc anaccttggt gagtggatgt catac 225

<210> 28703
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28703

agctaacaaa atanttattg tatttagctg gctnaaatca aggcaagggtg ttgtgtctaa 60
 acaataatct atgcctgaat caacttaca ataactttac aataatgaga aaaattaata 120
 aacgagttct atatttaaaa caaatatact aacattttac aacagaaaaa tagactatat 180
 accatacgag ataattatcc cagctctata atcatctaaa atatgggtac aattgtataa 240
 catataatta taataatggt gtgagtaatc cacacttata taattacaca ctcatgtaac 300
 cattacgaga tatgaaagaa agaaatatgc tcaaacattt ctttatcata ttcaagtaat 360
 atgttctaca tgataagtta ca 382

<210> 28704
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 28704

agtcttttgt ttctagaat acaagggtatg ctgaatgtac ctggatcttt acattcttca 60
 gggatttggg gaacagattt acgcggagac atttctgccc atactaattc tttcacttcc 120
 tttaagcttc cgcttattag tgcacagctc cttcaagaat ttagcatatc ttggaatttg 180
 ctctattgca tccagcagag gtatgtttac ctctactttt cttaatgttt ccaatatctt 240
 cttctctgcc tcttccatta ttttggttga aattgctctt ggaggggaatg gaagagggat 300
 atgctgcttc tctttagaat cacctgcgta gaaattgtta ggtaacttac ttcttaaatt 360
 cttgtcatca tctctttcta gagtaaagtg acgtt 395

<210> 28705

<211> 625
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28705

tcacagcgng tatcanacca agtcccgcga nagacatacg tatctgacgc acnctcaacc 60
 anccaccacn cnccccncnc aagcccagca gtgcattggg gccgttggn naccatgca 120
 anatacgca cacnatacag aacgcaagct gggaacgacg ctggcaaagg cgggagcgcg 180
 gattctcgcc atgtcagcag cggaacacgg atgcggacgt gcgcgagccc gccattgggt 240
 cctgcggcac accttagaag agttgatgga ggacgatgcg agaacgagaa tgaggcggat 300
 cttgatattg cgctgagaat ggaagatgct caagagagag ctgtggaaag cggacgttgc 360
 tacgtgagtg acattctccg atgagagaga tcatgacgcc aaactagggc acaccggtac 420
 atctgtcgaa taagacaaca ggatataacc acgactagac acctgcta atgtcgacacc 480
 aaccaccta tgnttttaggt gccaaacat aatgtaaca cactctgctc gaagaaaaca 540
 acaattacga caacaacgtg gatcaaggta ccaacctatg tcagtcgaca tcggacgagc 600
 gcgatacccc agaagaacat atacc 625

<210> 28706
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28706

ttcactctta tgatctattc angcgcataa gatatgggtg acgctctgaa attgaacgat 60
 tggagggtca tcgatctgat tcatatcggt catgaactct tgcactctcg aagtcttgat 120
 tctacgcgca ttggtatagt ggagacagct ctagtgttga acaactggaa cactcttcga 180
 gcagatataa gatggatcat aacttcttta ctacagagcg tcgcgattgc acgctgcata 240
 atatactcga gtacgctcaa tgattgagca atggaaccct ttcgtgcaat tggaagggtc 300
 ataacttggt actcggatgt ccgatcaatg cgaataatat atctagacac tttaaattga 360
 acaatggaag ctctagagcg attctgatgg tcataacttg ttcactctga ggcttgatc 420
 atgcgcattg tatatccaca cgctcatat tgacaacgga g 461

<210> 28707
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 28707

cttgatggtg tcgagaagaa atcacatggt tgtcatcatc acatatgggg agaatgtgaa 60
 tgtatgtata catgattctg atgatgccaa agaaaaatca aacaagggtg cttcaaata 120
 taagcattcg cttcaagaat aattcaagag tgcttcaaca aacaaagcct tgtttcaaga 180
 ttactaaag accaagcctt gccttagaac aaagtgttt caagacatgc aaggctctgg 240
 taatcaatta ccaggaagtg taatcgatta ccaaaagaca tgggtgagaa atagctgttg 300
 taaaacgggt tgaatttgaa tttcaaca 328

<210> 28708
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 28708

agctttcaac ttatgtctgc tctaaaaatc atcacacagc agataactat acaaatttac 60
 ccatcatatc ttccataacc ccataccac gaaaatcaaa ggagatagag gtccacccaa 120
 acctgatatt gcgaagtccc actcgtaacc actcactgca cgactccaaa aatgccctcc 180
 tttcgcgatg tggagcagaa acgagcacca aaggtaggag ctttggtggg gttatcatgg 240
 agaattgagg acatagaaa agcaacgtca tgaagaggga gacttgctga acagggtggg 300
 gctga 305

<210> 28709
 <211> 207
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28709

tcgaaggga gagagagacc aatcacgagc acatagctng atcttgatag aggagtaggc 60
 tgcttgctca atgtccnaaa gatacttgct tcagcgttta tgcgagacag agaccaacat 120
 gttagctatc gtcagcaagt accaagataa actaaatcta gccactgcc acgagcacia 180

agtggcggac gagtatgccc aagtgtgta

207

<210> 28710
<211> 102
<212> DNA
<213> Glycine max

<400> 28710

agcttctaga ggaagccaca taatggagct acgagagata gctacctgaa gctatctcgg 60

caacaatgct ttccagactt cgaaaaccgt aggatcttga cg 102

<210> 28711
<211> 249
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28711

agcttcccta tttatagaag agtgggtgtgg cttccttcaa gagtgagtgg tggatgtcaa 60

tcaatgcgtt acattcacaa tgctccttgt aactctaate ttcactttcc taagtggagt 120

gtgtaagcct caaggtcaaa gaaaccaatt acaagccttt ggaaagtgtc tcacaacttc 180

ctatgcatgc ctnggaatgt gttcctcaat ttctgtgtga tttaaatttg tatgtgtcac 240

aacctaccc 249

<210> 28712
<211> 429
<212> DNA
<213> Glycine max

<400> 28712

tacatagatt ttaatacaag gactttaata gtagaagaat ccatccatgt taaattcaat 60

gattgggtctg tctgttgac ctaaagaaag tgaagtcaaa caatatgatg aaatctttcc 120

ccagaatgaa ggatcttcaa atcaacaacc attgacaaag gactataagt tagtccatta 180

tcatacaaa gatcagatca ttggagatca aattgaagga gacaaaacca tatcatcatt 240

cacaaatctt gtgtcttttg ctcttgacaga aatagagtga tgatttgatt cttcatcatc 300

ataacttaata gtagagaaaa taaaattatt tctctatgag attgacctaa gaaatagaca 360

aacatcactg gtgatgactg ggatcacgcc gacccaatca ataacatata tgcataactt 420
gaaggatct 429

<210> 28713
<211> 217
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28713

tttcttcgga tttaagtgan gagggacaag ccgctaaggc agagcttgaa agagcccggg 60
tagtcgaaga gaagttcaag tccatagcca tcatagtctg acaagagtat gatgaactaa 120
gggacgtcaa tatggccaca gctgaagcct tggaacgaga aaccaataat gctcgaatgg 180
aagaacacga ccgaagcaaa gtnttgaggg gctttat 217

<210> 28714
<211> 344
<212> DNA
<213> Glycine max

<400> 28714

tcctcggagc catttcctgc gaatgcaaac atttgtatag ttatatattac cagtgggaca 60
ctactcttaa aacaaagatt gcatacaacc tcccccgta aatacaaaca tcaatgtaaa 120
tttagagcaa gcatatgcgc atatattctt acgaacgttc acttgacaaa gacattctat 180
taactataaa caaatgcacc catatacaat caaggcagct gtcgtatcta cattacttac 240
atgtactatc aacgtgtatt agtgactaca tcacacacac ctcccttggt aaatttacat 300
acttgattac tcaaacattt ggggtaccaa aaattgccat gtgc 344

<210> 28715
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28715

agctagtgag actatgggtg actcatcata tgtggtacta tgtggcgatc gggcgataga 60
gcaagccgac tgtccacata cacaaatgac acataaaggc accataccca gttgcccacc 120

ttgaaactgag ctcacgtact tacacgtaga ccttatccga tgttcttatt aacaccgggt 180
 ccccatcaat acctccaagc ttccacaaca tgcaagcaat tcaacatcca aacatcatga 240
 gctatccaaa ccaagaaaat atggcagagg cagaaaaacta tgtccacaac acaatccagt 300
 gccagaacgt tacgtactca aataccgcag taacattntc tgagttgcga ttagacaacc 360
 gctggatcga ctcaaaacat ctactggagg tacctaggac ataaatgtac attttgaccg 420
 ttgggatatg ctat 434

<210> 28716
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28716

tgtagagagg agttgctaag aaattganat tctcttcatt ttacaaagaa tntcaattct 60
 ttcattctct gttgaataaa attctntatt aaaatgacta aattcaattt ctctttaaat 120
 gatttatcca aacatgtaat ttaccttga aatatttcaa ttacatgatt aanatgaatt 180
 acccagttaa nagtcatcat ctaaacacac tcttagtgat tntatccggc tegtctagtg 240
 gaatttacct gtagtcgaga caaaaaaaat tacaaaatac ccaaaatggt ggtcaaacaa 300
 tatgaaatcg aggagcagaa aatcaattcg tgccccaatt gttaccaat catacaaagc 360
 agatcaatca actctatagc gtagagcatc gtacaata 398

<210> 28717
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28717

agcttgacga ctaaagcaac ctcccatggt gcacacaaac cttcaaaaat agagtcggct 60
 atgtgaacca ttggcttctt attcccgacg accttatctt tgaatagaac acgtttatcg 120
 acacccccgc catctggtgg ctcttttctg aagccgccac caccatacc acttgacag 180
 aaaacaaagt cctgagccat tntaacttag cctgcgtggt tctcgttac atattagatt 240
 gaggacaaaa atagtaaacc gaacttcaat taataaaaaat gcaataactca ataagcataa 300

acgaatgaga taaaaatagc cattaagtnt ctactaagtt attcaaatat taaatnggat 360
 ttgaatgtat acactttttat tataattaaa gtgaaaactt at 402

<210> 28718
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28718

tcttatatag accctcttcg ggttgctnta tattcttata gttctgggcc atcatgttga 60
 agttagtctc cagttctttt tggtgtttct cctcctccc tcgactatnt gtttgggcat 120
 tcccccttcg cagtctatct acccctcttg tgacaagaat aggccctaaa tcctcaaccc 180
 tcctccttca ataacaactc ccttcctccc ttattctata tcctccctct tctacacttc 240
 tcacacaagt tgaaattatt tttctcctat cctaatacta ccaccacctc caccaaacc 300
 aatgccccat ntatgtttcc aaacccttt tcaccctctc gcaagtcac atgcttttct 360
 catgtgctca aatccctcat tcttc 385

<210> 28719
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28719

agcttgaacc atatatctgt gagagtgtgt atcttaaact gtgagtgaac gactagctgt 60
 gagtaataat ctttgcatga gtctcgtgaa tttagaatga aatgtataaa tgaggacatg 120
 atgaaggcca tgattgtaca tatacaagct cttttgacca aacaacttac cttgaatgat 180
 aattgcatcc tttgctccct ttttgagttg aatgatattg tcaaaaaatt gaaccctgaa 240
 cttaaataat tatctcctga taccttgttt atattttatg agagcatatg gttcaaggag 300
 aatatactct aaatctgcgg gagggaattc aatcataatg aanagaaaaa ggttaagcat 360
 cagcacacac aacaaataag ttgtctgtca aatgataag agaaagaaca gaatatatta 420
 tgctgttaca ataag 435

<210> 28720

<211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28720

tattaatgac aaaactntgc acaatntaat cttgatctan tttttcaatc actagaccac 60
 aatccatagt gtggtgtgaa aacttaagtt ctgcattgga cgacagggtt aagaacttgt 120
 tttggttgca aaatgacttc cattgcgaan atatntataa ttttatctaa catactatnt 180
 aactcccccc tttctagtgt gatttattat atttcaagaa cttggggggt tgcataccgg 240
 ataggtattc gactagggtta gtaactagta gaaagaatgg atataacatc gttacgttaa 300
 catc 304

<210> 28721
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28721

agcttaataa cccttcttgt agagtatcaa gatgtctttg catggtcata tcaagacatg 60
 cccggtctgg attccgacat tgtgcagcat aagttgcctt tgaatcctgn gtcttccccg 120
 gttaagcaaa agttacgaag aatgagaccc aagatgtctt taaaaattaa agaagtaagg 180
 aagcaatttg atgcagggtt tttagctgtg gctcgggtacc cagaatgggt agccaatatt 240
 gtcccagtc cgaaaaagga cggcaagggt cgaatgtgtg tagactaccg ggacttgaac 300
 cgagccagtc cttaaagacaa ttttccccta ccacacattg atatatttgt agataatata 360
 gccaaattcg tccttttctc atttatggat gggttctcgg ggtataatca aataaagatg 420
 gcacccgaag atgtagag 438

<210> 28722
 <211> 271
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28722

tgtcgaaatt gccatgtntg ngtgagttag acatacccat tctgntttaa gggtttttgtg 60

atgatgtttg tgatgtntat atgctgaaat tgctgatgga catctgttag agatgaacgg 120
tanaactaac ccacggttag aaagtgagaa tgtgacgtta ttagttggaa aagagtgaga 180
ctttgagagt tggaacgcta agtctgaatt ctgtggtaca tggagggtag agtgagttaa 240
tactagcttg aaatgtcatt tataacatgt g 271

<210> 28723
<211> 431
<212> DNA
<213> Glycine max

<400> 28723

agcttgtaa tttatagttt ctagtccact agccattccc atctattaac atgtgcaa 60
taagaatgca ccaagttatt ggagagtaaa ataatgatga ttttgagcaa gctaacaatgt 120
gagaaataat tgatgaaaaa gacagactta atcgtactga gctaaataaa gaagataaat 180
tgggctgttt ggcccatcag acataagtgt gaaatggcta ttaatcaa 240
gggctgcaaa tttgttgacc tggaccagcc ttgtgtaagg ctagcgggcc aacaagtcaa 300
atcattccta attaagaata accataaaac ataaaattaa tcataactaa tatacaaaaat 360
gctaagaaat gtatataaat taacaaacaa aataaactaa aatgggtaat tgagttgggt 420
cataaaagcc a 431

<210> 28724
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28724

ntntataata attatataca aaaatgtcac aattataatg atttcttatt cattattggt 60
ataagtaaac aatgttacta tgtataaaaa ttctaattta acaaaatatg tttttattaa 120
aaaattcatt tcattcatta ctatgtatag atattatgta ttatgccaaa tggataactt 180
cagttgtaca tgctgaagt ggtgtcataa atgcttaagc tacaatacac aat 233

<210> 28725
<211> 364
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28725

agctttgatc tatccaagat tatacaaagg cgttacaaga gaacctaacg attcctaatt 60
atatgggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatctcctcg 120
ggggcagtac acactntggc catggctatt gctttggcta acagatggcg gaggtcttga 180
cttcattca atgtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaacgca 240
tcaatcacc cccctcttgc ttctttatcg gcatacactt gtgcaaaatc ctccactagc 300
ttttgttcat gggccacaga ctggttcaac tctttctttt attgccctat gatagctagc 360
atgc 364

<210> 28726

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28726

tatgcgcata tttccttaaa acgtttctctt gttcaagaca ttctattaac cgaanaaaat 60
gcacccatat acaatcaagg cagcttcggtt acctagatta ttacacgta cttccaagg 120
gtatttggtta cttacatcac acacctcctt ggttaaattc acatacatgc atactcaaag 180
cattttgggg taccaaaaaat tgcacatgtg cacatcttgg tattttctaat acctatacat 240
acacaaactt catgatgaat cttgactatc tacacaataa ggtgctacat tttatgctct 300
tttcaagttt ttgctaccta aagccgcatg caaattcaag tatattttcc tttgctgact 360
aaaattgtat tcaaattaaa aggtatacat tttttggtta tgtatcttct ttacataaca 420
tgcaacatat ttatgt 436

<210> 28727

<211> 415

<212> DNA

<213> Glycine max

<400> 28727

agcttgtgga gctgcgttga ggcttaccaa ggatgattct tagatttcgt gaacctgtga 60

cactcaccaa gtatgaagct cgagcttaac gaaccttgcg tgtgtagcgc acgtgcaatg 120
ctcttgata catgttggtt ggggtatacc atgtactgta gtcatagcgt agagctatta 180
catacgtgtc actcgcggag tgatacgtac aggagacatg gcgctcttga atacatggca 240
cttatgaagt ggcacatact gaacactcgg tgtcatgcta tagcatacat ggcacagttg 300
aagtggcccg tactggagac atgggtgctct tgcatacatg gcacttatga agtggcatta 360
cacaatacgt ggtgatgtgc tcttgcatatc atgacactca tgaagtggtc atact 415

<210> 28728
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28728

ntccgccaat ggtatttgag gtttaatgat accattatct cctttatata taaggaaaat 60
attgtttatc ggtgtatgta tctgaaggtc agtgggagta aggttatttt ctaattttgt 120
atattgataa tatcttggtt gcagctaacg atcttggctct tcttcatgag actaagaaat 180
ttctctctat aaactttgaa ctgaaagata tgggtgacgt aagctatgtg atacggatag 240
aaatattcca taatagatca taatgattgt tacgcttctc tcacaaagta catatatcca 300
taaagtgcta cagaaattca agatggacag gtgtttaaca tcgcctattc taatgtataa 360
atgagacaca tttattctca caccaatgc 389

<210> 28729
<211> 381
<212> DNA
<213> Glycine max

<400> 28729

agctttatgt ttaacaaaaa tgggtgcagtt ttattcagca ttttgcaaca ctttagctgc 60
attctctgca actaatgttg ctgcattaaa caacatttct gcattcttca atcaaaacgt 120
gcgaaatggg aaggaatgca gctggagggtg caataaaaac atgcatgttg aaatcgagaa 180
taatcacaca acttctaagt cattgaactt cctaagactc actattcaga tgaatgggtga 240
agattgaagc aagaacgaaa tggaaggcac atgtgcaatt gaggaagtcg ttgaagatca 300
catgacttca ctattcatgt taaatcattt tatataaatt aatatattat acgtcgattg 360

cacggctagt ttagtttata c

381

<210> 28730
<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28730

tatgctgcan acacttataa tagacctcct catcagcaaa actctcaaca atagaataat 60
tatgaccttt caagcaatag atacaatcca gggtggagga atcatccaaa tctgagatag 120
acaagtcctc cacaacaaca tcagcctgtc cctcctttcc aaaatgctac tggccaagc 180
aagccatatg ttcctcctcc aatgcaacaa caacagtagc agtcacaaca aagacaacaa 240
gcaactg 247

<210> 28731
<211> 397
<212> DNA
<213> Glycine max

<400> 28731

agcttctctc ttttcttgta taattattat attttggtta taagccttgt atttggctat 60
gtatttatga catttgaata cttagtattt cttttattat tggattagta tgactgaaca 120
tgatgatcat atttacttgc tcttggttgc ttatggttat gaagttttaa acttaattat 180
tttgatgatg tatgactaga ggtatgcatt tttatttgggt tattatgaat gactttctgg 240
attatatgac attctataga gtattatctg tctaagattg atgaatgatt aagatatctt 300
gttagattga tttctattct tgccgatgtc atttatgtat ggtaattata tttcttacct 360
ctctaagttt gatgaatggt taacatatcg tgcttaa 397

<210> 28732
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28732

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ttgagcttga cttgatagaa cctctttnta agcgaaggca ttcgacttga tcccatgttt 120
tactaaagtg aacaaaaatc ggcgcgaatc anaactccaa catctatcat gggtggaat 180
ggatgaatgc ataaagaaat gcatatgaca tatatgcaat ttacgaata 229

<210> 28733
<211> 385
<212> DNA
<213> Glycine max

<400> 28733

agcttgagaa gtggtatgtg ttgaagggtg aaacttcctg cttttattgt tgaccacaga 60
gtggtacctg cagatatgtc gcgggggtca ggagacctg gggacgtcat gtgggggtgct 120
attgccc aaa accaagcttg accaatcccg acccaacccg ggcatagtcg gtcagtgaga 180
acctgtgatg tacctaaaca ggcgagctcc tggcacttaa catataaaac gaacacagac 240
caciaagcaa ggaggctcgc tgtggctggc caactgtgaa ttttgagtga tatgtaaagt 300
aatggcctct ggtaatcgat taccaagggt gggcatcga ttacaaggct tagaaatgaa 360
gacaggatgc taagatggtc tctgg 385

<210> 28734
<211> 259
<212> DNA
<213> Glycine max

<400> 28734

atcttctaac ttttatcctg aggtgaaata cactactgtc gaccactata tgaatgcgtt 60
tgtctgaagt ccagataatg cggtatcatc aatatactgc tctacctaag ctgatcaata 120
aaatcagagc atcttgttta ttgctcacga atatgtacct tggtccttat tgccgttcgc 180
tacttcgctt aactatgcac tgcttgaaag ttcttctaatt attaaaggct tattactatt 240
tgctacggtg tgaatgcga 259

<210> 28735
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 28735

atgttcacgc tctgaagacn cgtttatctg cttatgtact tacgtcnaat ccaggcaaca 60

naagcctatg ggtgtgctgc attagggaaa tgggatggat tctaggtata atacagtata 120

tactttataa cctaacctat gatctgggac cactcacgat tagtgggaaa gactgacat 180

cattcttttt tctttaacaa aatgtcgatg ttacctaagc gataaggata gaaggatggc 240

catactatat cttcatgaag gtcacgctca atgcacagag tacgtaatga tagtaagcgc 300

tagagacatc tttatagaac gtgctttgct cgtcaatctc ttnggatgag aactctctac 360

tacggccagt gtctacatt ctogtctac cttcacttta tcccttacat aatcgtgtgc 420

gtagagtga gtttcttttt cg 442

<210> 28736

<211> 312

<212> DNA

<213> Glycine max

<400> 28736

tttcatgctt tcttgagatg atgaagtgtt gaagggtgaa acttctgct tttattgttg 60

accacagagt ggtacctgga gatatgtcgc gagggtcacg agaccttggg gacgtcaggt 120

ggggtgctat tgcccaatac caatcttgac caatcccgac ccaacccggg catagtgggt 180

cagtgagaac ctgtgatgta cctaatacagg cgagctcctg gcagtcaaca gataatagga 240

agacaagacc acatagcatg gaggcttgtg gtggctggcc agctgagaat ttagcgtaat 300

atgtggattg tg 312

<210> 28737

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28737

tctttatata tatatatata tatatatata ttcttgggc ggatcaaaat anataaaaaa 60

tattgtgagc cttgtggacg agattctaga gggtaatttg aagaacaaga tcattgtaaa 120

cagttgtagc atttgttgct agagaaatga ttatttggac tcaccacgtt cactagagca 180

gactcggtc taactctttt agacagcttc aaattaattc cattgttcat tatcaaattg 240

atatgaagca catgatchnaa tctgtcagca gttttattat agtaciaaaga ttagcttcac 300
atgaatggat gttcttttta tatacgcatg gattttatta catatatgtt tcaaagtt 358

<210> 28738
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28738

agcttaatga gtgctacata aaaattccga gaaattcata caaaaaccta gaatgcatga 60
actcgctaag caccgacatgc cggcttagcg agttcatgtt tccaaaaccc ataatgtatg 120
aactcgctaa gcgcggagat ccggcttagc gcattcatca ttttccagaa gttcaactca 180
tgaacaaaca caaaaagaga gcagaatcat agatatattg actaattaca acatgtacat 240
acaaaaccta aacatagtgc aaatcataac atagtaaata aataacatat tataatagaa 300
catgtataca ttcaggagaa aaaaattatg aatgagggga agaaagtgtg tacttggggag 360
caaggaatat gaattatgca cgaggggaaga gcggctcaag ctogaatntc acaaagagtg 420
agtgagtgag aagagtg 437

<210> 28739
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28739

ctttagaact tgggggcaat agtcattctt atgacgttga ctagttaaga aatatattaa 60
ttcctatcaa ggataggata acaggagata acaacatgat ctctacaagt gtttctaattg 120
aaacactagc aatctttaga taaaaaataa accacaataa tcatgaaatg tntaatactt 180
taacaaacca tatgacctca atcttaaate ctacgttaaa gactaccaac gacagttatc 240
aatagatgaa tggatatctta actcacacag gagatacttt ggccattcct agaaacgaac 300
ctngngaataa acatgcaatt caagaaatac tagtacaaga ggaacctatt aataataata 360
atcttgaaaa cgaagttaat gtcccgtcac gaatagtgag tgat 404

<210> 28740
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28740

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 taatcgatta cacagtgcaa attttgaatt caaatttttaa tagatgttgt aaatcatttt 120
 tggccactgg taatcgatta taccctctgg taatcgatta ccagagagta aatctcttga 180
 aaaagacttt ttaacttaaa tttcttggcc aaaccttttg ctacttcaat taggaattcc 240
 ctctctattt aatataccct tcctaagact ctagagactg tcttgatcat ccactctgaa 300
 tatctttaat ttctttgtct tgaataaagc ttgagaagc atgtgatcct ttggcatcat 360
 caaaacattc agcttgatcc ttgtctaca caaatgaata aatatttacc tcatgcatac 420
 attntanaac gtactat 437

<210> 28741
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28741

ctcaagcttc agcctgatcg ctaagcgaca acttatcctt ggctaagcat gacctattgt 60
 tgtatagcac aattccttac aaccataact gagatcaatg aagctaagtg ccagtgagtc 120
 ctcatcaact aagcgcatgc tcctctgtac ttaagatgca tcattntagc taagacagcc 180
 agagtctggc ttagcgagag ttgcagcttt ttggatctgc anacctcgct aagcggctctg 240
 atcctcacgc taagccaagt tgtgtgtaaa aaaaataatt ntgaatttga aacgtcgact 300
 aagtgcgct atccgctaaa cgagccttgt tgagaaacca aatgtctctc tagctcgctt 360
 agcgagtg 369

<210> 28742
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28742

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tcaactcaga cgagtgttat gcctctgaca tgaatagtat gatgcgccct gtgcttacag 120
actggcggag tctgtcatga tgtacatagc caaccaacct gactgtatta cacagacaac 180
tcgctcatca ggagcataca caaagatggt tcccaagagc ttctttgcgt cggagaataa 240
taactactaaa aaatcaggac attcac 266

<210> 28743

<211> 177

<212> DNA

<213> Glycine max

<400> 28743

acatcacagg taatccatca gagaatatga gaagatacac tttcgtgcac atacatgaaa 60
cattatgctt ttgtcatatt gtacaactgt tcctaaatag acaagaaagg ccttacgcgt 120
gtgaacctaa ccaactatga atttggggtg tcgaaataca tcaaccagat acatgtg 177

<210> 28744

<211> 409

<212> DNA

<213> Glycine max

<400> 28744

agcttagaac ttaaactatg tcttctctta attgactttg ggctcggcga ccacgatcaa 60
caaagtactt tctgcaccta ctatatgttg acttgaccaa cgctgatatt ggaatgctgc 120
gacaatcttt caacacctta ttgacacatt ctgatagggt gggtgtcatg tgaccatatt 180
gtcgtccaga tgtatcgtaa gccatgctcc atttttcctt tgaaatgcga tcaatccatc 240
ttgctatggc tggactcagt tgacgaaatt tttctgagta ttgatcaaac acatgcttgc 300
aaggagtgta cgctgcatca gattagtatc atcaaagtgt gtacgtagac atcaaactca 360
aatcagatta atgtataaaa tcaaccttac ccaatctctt gaacatctc 409

<210> 28745

<211> 228

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 28745

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 ctatgtggat gatatacataa tcacgggaaa tgactctaaa ctaattcaaa cacttgtagc 120
 tcaactaaac attntcctta aaagatgttg gagatcttga ttatcttcta gggatagaag 180
 tctctcatta tacagatggg tctcttactc tcaactcaatc caagtatc 228

<210> 28746
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 28746

agcttaaatg atgttggttt atgggttaaca tgtcttgata gaaggattta tgttaattat 60
 gttagttgta attcagtata ttagttgtaa agtttggttag tttgttttagt tagttgagtg 120
 tgataaggca gtgattgagg ctgaacttga gttgtataaa tggcctttgt gtaattcaat 180
 tcataatgca attcatcaca ttttagtata tgctttttct tggctttctc tctttctccc 240
 caacatattt ggtatcaaga gcactaagtc ttgggactag gtgggataag agaggtgtga 300
 attgagaaag agtggtgaga gattcaaaca gtgtggatcc tttgagtgtg aaacagttga 360
 gagttgtgag attgtgagtg aagcaatctg tgaggcattg agaatcaaga tttggcgaat 420
 ttggatct 428

<210> 28747
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28747

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 tcacaacata acaaatcacc acgtcagagg agccataatt gcagcaagta ccctaagcc 120
 acatcaacgt actcactgca tgtactctca acccattngt tttcccttgc acttactcca 180
 attcagcana ctgagtttgc anactactta acnntatttc aaaacgcaa atcagcaaat 240
 natcagctca tttagcta atcattttcc ccaatacttg ttaaaaaatat tcttttacaa 300

aaaaaaaaaa acagtccaca

320

<210> 28748

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28748

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ttcacccgat gaagacactg acaaaaactt atctttgcct tcttggacaa agtatggcag 120
gctgggggca agtaaatctt cttcccatca gaccttggat gcaactgtga tcgtataccc 180
atatcagcta gatcttgatg ggtattcaag ccattcctcg tcttgccttg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacatta ttctcccat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacgcca gtacggaaga tcacagaaga tggacctctt cttccatagt 360
caacgctgac tnttatcctt cttttgggtc ttcccaaata ctatattcag gtgttgaacc 420
cgttgatata c 431

<210> 28749

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28749

tgttntaatg tgttataaga accaatgctc ctatcaacag gcatattcca tgacccagc 60
cccaaacat cagagcanat aagtaaggga atataatagt tgggtaaaact ataggatttg 120
cttcttggtg tcttgcaaca ctgccaagta aaagggctaa ttangaatct aatcagttgt 180
catggattta ttatataccg agaagaaatg gatagtaagc tagataattt gtatccaccc 240
tgganaaaca atgcactata aagcagtcct aaaatttact tcaagacatt taataattca 300
tgttgctgct agtaaagtaa ctaaacactg tatgcatcac caatttcttg ataaggaatt 360
gtgaaagtgt tggtcctaan atatgt 386

<210> 28750

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28750

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tattagctgg aatgtgagaa ttgctatctt ctattacttt gcttactctt tccatgcacg 120
ggcgattcat gatgctctgc attgggtctt tgccatgtag cttttccagc tgctggatga 180
gagaaaaaga acaaagtctt tgcggcttct tgcaacaatt aatcagaaaa tccctctaca 240
ta 242

<210> 28751

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28751

cttcattcag attgctctct attntctatc cgaaccttcc aatttaactt atgctaggac 60
tagatttatt cattgattgt tgtcaaaaat aatttatttt ttacccaaat aaatttttat 120
attaaaaatt aaaaacaatg tattttctac caataagcat ttcttatata aaatattaga 180
aaatcacttt caacctaata agaatttctt atataaaaga ttgtcttata taaaattaaa 240
aataatccag aaagaaagat tataaagata catgaattta tataaaagac atacaactaa 300
ttagatatat aattattttt aaaaaagagt tgaatgagtg caaatgtat ttgtattcaa 360
gagctataac 370

<210> 28752

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28752

agtcttttat tattcttggc ccgcgntcc ttggccctct tgcaattatg agaatatgga 60
gcttctgttt gttctatgtc atggctgaat tgtgggggag tgtggtgatt tcggtgctgt 120
tttggggggt tgccaatcag gttgtttcat tgtttgaact ttgagcttac tttgttagtt 180
ggtaatttgt ttctggcttt aattntgtta tagtatttgt tgggtgctgt atcatcttaa 240

cattnttttaa ttttggatc tgaacatggc ttattgattt catcatcatg aatggctggt 300
 gtttgntgga ttgtgtcact tttcagctat tcgttntggg catattcatt tgtatgctgc 360
 tcctttctct atagcttagc cgcttagctt ttgatgagtc ccttatatgt tattatttct 420
 tg 422

<210> 28753
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28753

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 atctatccct aaattgtgaa gagggaagta actcacgtga gtctcactat tatagttgta 120
 tatatagaat gtacataaaa agtcacacac ctacacagta acaatattgc actctcgta 180
 gcatattaag ccacaatata tcattgtctt attattatcc aattccttta actaactcat 240
 gtcaatgata acatgtaccg acaaaatctt ttttgtgaag agtgatgtan gagtagtcca 300
 aacattttgc tattaatatt cattatctca at 332

<210> 28754
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28754

agcttgtatg attatgngt acccatcaca tgttgtacta ggtggcggtc gggcgatggt 60
 gcataacaag ttttccacat ccacaatgcg gcataaacc caccatcccc tggtgcccac 120
 ctccaactga gtcacgtac tccacatag cccatatact cgtttctctc aacaccggtt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa cagagcaaag gcagaaaact ctgctcaaca catcaaccaa 300
 aatcacagct nttctcactt aaagaccaca gtaacaattc cttcgatcca attcgtaaac 360
 cgttggatcg actccaaaat tntactggaa gtctatagtg cataagccta cattgtgaac 420
 cgtgggatct act 433

<210> 28755
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28755

tgacacctgt nccaattttt tattnttttg tcattntaga tgttcaattc ctactcctct 60
 gcttgtgcca cgtgcttggt gcttaaacca gtntcattt tttgggtgtg ccacgttctt 120
 tgatgggttaa agctttccgg tgggtatgtg ctacagcgac acatgttttg ctttttttca 180
 ctgcagcaac acgtgntttt ctttttttct ccaaaattat attatctttc catttctctc 240
 tttgcagtac acacgggaac ctggagaatt ctaaatacga aaaaaatcgg agttgagatt 300
 ttttattgtc ttgcattttt tcacgtttct aaagttttac tcacttgtgg tgtgattcat 360
 ggcaccttta tccacatc 378

<210> 28756
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 28756

tttcatgcaa gcttgaacct tgaaccttga atcttgattc ttgagtcttg aaatcaaag 60
 ttctcttgaa ccatgaagag ttcttgattc aatcttgaat atcttgaact catgtctttg 120
 aatcttgaga tcatcatcta tggtatcatg aagtgttctt gacctttgag catattgtcg 180
 tcacctgtgt tatcatccca acttcattga atcaatcttg attcatcatg aagcgttgat 240
 ctacaatata ccaaactact gttagtaaat at 272

<210> 28757
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28757

tgggctcttg cctcactcac cgccttggtg aggtcattnc tatctatctt atacttatcc 60
 caagtttcag aattgctaca cctagaccac tccttgaaac actcgctttt tactctaact 120

ctgctctgaa cattatcatt ccaccaccac gattctttac ccctaggtcc aaaacctcta 180
gattcactca acgtctctgt agccacttta ataatctctt gggacatctt gttccacata 240

<210> 28758
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28758

agcttgagtg tttacatggg tgcatgcaca atctgttttg cataattttc taaatcatcg 60
ttnttatatg catgtcacgg aaataatgtg gggcattccc ttttatccct gaaccactgg 120
ccaaagcaag taccctgaca cattgtttcc gccctacga atactacttg tttgtgtggg 180
tgcgagatct atcgccaagt gcaccagatc gtcaagtaag taattaaac agaatgatcc 240
gagtatcata ctc 253

<210> 28759
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28759

tctagccaaa tggacttacc ttgaattaat tcctttgata gcctctttga gccttgtttc 60
cctttccttg ttgtgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120
ccttaacgaa ttatggagct ctggaattgt tttgggaata agtgtggtgg ggttttgttt 180
cattggataa catgttgtgt tggctatgct tcatgatgta ttgtgggcca tacttgatgt 240
acattgtata ttggntacat gtccgacatg ctggaataga tgctgtttc 289

<210> 28760
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28760

agctntgcag atttggctctt cgccagtga taggtcgatg tgggtccgaa nagaggcaaa 60

tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggataag 120
ggagaaaacc atgctgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180
tatctttact cagccaataa caaaccttct ccttaccac caccagga tccacaaagg 240
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
agcacaaacc anaaacacca accaagaagt gaattntgca gcgagaaagc ctgtagaatt 360
cacccaatt ccagtgtcct atgctgactn gctcccatat ctactngata attcaatg 418

<210> 28761
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28761

tattacaagt cagtggagaca acctcaaaga aggctgaatc taataatgaa agaagaagta 60
agataggaag tgctcaagtt ggtagaggca gggctcattt acctaatctc ggatagttca 120
tgggttagtc ttgttcaagt tggtccaaan aagggaggta tgacagtgat aaagaatgat 180
agagatgagt taattcctac aagaatagtt actgngtgga ggatgcgtat tgattacagg 240
aagctaaatg aagccactan ganagaccat tacctgctcc cttcatgga ccanatgctt 300
gagagacttg canggcaatc tttctactgt ttcttagatg gatactcann gctacatcaa 360
attgcagtgg atcctcanga ccaagaanaa acatctttca catg 404

<210> 28762
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28762

agcttgcatc atttgttggg ataantngcc tgtaccatta cgctcttaat gtcttttagag 60
gttacttcct cgttgacatc ataagccagc caatagaaga agattttcaa gatctcttgt 120
ttgaagcaat caattccata cctgaccccc aagaaaagaa ggtttttctg gacaaactca 180
agaaaacatt agaggtaaaa cctagacaaa aggattttat cacaaacaac aaatctgatg 240
taagtaacat actcaagaga gtggaanatt cttcaaccaa accaacgaca atccaagatc 300

tccaaacaga gatcaacaat ctagaaagat aggtaacaga atttcgtcaa caacaagata 360
 ttcatcagat cattctttct cagctcgagg gagatagtga ttctgagagt gccacaaca 420
 gtga 424

<210> 28763
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28763

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 aagaatcaag ccaaggctat tgtgcaagca atcaatggng canaacatac caaatgatta 120
 taatgatgga tggctcanat tctcacacag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtac agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattgc ccattttttt gaacatatcc tataattcag agaaaaacat 300
 gcaaagtcac acgtgcacac gaaattgacc caaaatatta aactgataat cgcacgaaac 360
 taacaacatt aacaaattaa cacaactaac aagataacaa aaccaacaaa actagcataa 420
 ccaaagaaca ctctcccttc ccccatact taaaacacac a 461

<210> 28764
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28764

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 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatccgc tgttgccac 120
 ctccaattga gctcacgtac tcccacgtag cccatatect cgtttctctc aacaccgggt 180
 ccccatcaat cctccaagc ttccacaaca tccaagcaaa acaacattca aacagcacia 240
 gctatcacag ccaagcaaaa cagagcagag gcagaagact ttgccaaaac accaaccaaa 300
 tcacagcttt tctcacttaa agacccagc aacaattcct tcgatccaat tcattaaccg 360
 ttggatcgac tcgaanattt tactggaagt ctatagtaca tgaacctaca ttgtgaccgt 420

440

tcacgactnt	nttctatana	taggcaaagg	ggggccattc	caaagggtcc	ctgaccccta	60
tgttatgaat	ntcagttatt	tttggtgaaa	aaacgtgttt	ccgtgaagaa	aatccaagcc	120
gaggtgectc	cgtaacgctt	ccaagacggt	tccgtgggtg	attccgtgaa	gattnttcgt	180
cgttccttct	tcttcaaccc	ggtagttttc	gaatccgaga	ctttcanttc	atttcttggt	240
ttgttggctt	tcattcttcat	ttcgtttact	ttcggttgtc	ttttctttcg	tattttaacga	300
gccttcaccg	atnctgtcaa	gccgtatctc	gcctaattaa	tttgtaaaat	gaaatttaac	360
cgatcatttg	tgttgtatct	cgttaatcac	tgttaaataa	aaccacccga	tcgtcacg	418

agcttcttat	ccaaggctca	tcttggtggt	gaagctcctt	cttccatggc	ttattcccta	60
gtggatggca	cctcctctca	cctcttctca	tttgtcttcc	gctgcatctc	catggtggaa	120
aatcaccatt	aaaggacctc	attgaagctc	aaagatccag	cctccataga	agccccacaa	180
gcaagcttcc	atcacaagat	accttggaca	cgcattgtata	tggcaaaata	gtcacaaaaa	240
tatacgtatg	tttaggtagc	aaaataacctc	acaaaaaaaag	agagagagca	aaaagagagc	300
gagcaagata	agaataagaa	aaaaataata	ataacaagtt	gtctagctaa	naaacaacat	360
gcttgtgaaa	agagataaatt	tccaactatt	ctttgaaaga	atttactgat	cttaacc	417

11993

<400> 28767

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atcttaccta cacaccccct ataatagcta agctcaccca tatgcgcaaa aacaagaaca 120
tacaaaagat gtccctacta caaagaccac tctgaatgcc tcgacgtaca atgcgtaaac 180
cctatactac ttaaata 196

<210> 28768

<211> 355

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28768

tttcttgcca cccagctcgc ccaggcgagt tatgttggtta cctccagaag gcaccgccgc 60
cttctggatg aacttcctgg aaggcccaag tgggcctggt tgcattttgc accacctgt 120
nttataaata caccacctgc ctcttttgc tttctttttt ccgtaacggt acaaaacttt 180
acgaattccg taacgatact tgttttcctt tcgtaatggt acggaacctt acagattacg 240
taatcattcc tttcttggtt ttcagaatga tacggaacct catggattgt gttacaatgc 300
ttccttttga tttccggcat gttactggac tttcatggat cgtgcaacaa tgctc 355

<210> 28769

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28769

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ntatcagtaa taatagaacc tcaaagagaa ttgtgcttga tcctcaagag aaaacaacgc 120
tgccgactta gcctttcatt aatcaaatag agaataaat tttattgata aactaaaagt 180
ctaaactgga attgtaaaaa atgataaata gaagagagag agagagagag ctcaactaga 240
accttggtgc tggtatata 259

<210> 28770

<211> 251

<212> DNA

<213> Glycine max

<400> 28770

tgcaacgcta tataagcgta tctgagacgg tctttttgga agattataca aggggtcaacg 60
gtgacattct ctcctctgtc gccgaactcc tcggagaggg ctatggagag tgtggcaatg 120
aggactgtga gaatggaaga gtatgttgct tcctttcttca tcaccatcat catcttcttc 180
ttcgatagat agagactatg atgccagaga gaaataattc atcaaagccc accagattct 240
ctctctcgtc t 251

<210> 28771

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28771

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atgctactct taaaacgaaa atggcataca acctcctcca ataaacacaa acatcaatgt 120
aaatttagag caaactcatg cacatacttc cttacgaaca ttcactcgca caagatattc 180
ttctaactaa aaaaatgcac ccatgcacaa tcaaggcacc ttcgttacct agatcactta 240
tatgcacttc caaggtgtat ttgctaccta catcacatgc atttcctttg ctaaatttac 300
atacatgcat actcaaggca ctntggctac caaaaattgc atacatgcac attcangtat 360
ntctaatacc tatacataca caaacttcgt gatgaatctt ggctacctac acaataaggt 420
gctacatttc a 431

<210> 28772

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28772

tgtaggatta tggngtacct atcacatgtg gtactangtg gctgtcgggc gatggtgcac 60
aacaagtgtt tccacatcca caaatcgcgc ataaaccac catccnctgt tgcccacctc 120
ccaactgagc tcacgtactc ctacgtagcc catatcctcg tttctctcaa caccgggtcc 180

ccatcaatcc tatcaagctt ccccaacatc caagtaaaac aacattcaaa cagcacanac 240
tatcacagcc aagaaaacag agcagaggca gaaaactctg ccaaaacacc aaccaaaatc 300
acaccttttc tcaacttaaag accccagtaa caattccttc gttccaattc gttaaccggt 360
ggatcgactc caaaaattta ctggaagtct ctagtacata agcctacatt ttgaccattg 420
gtatctact 429

<210> 28773
<211> 434
<212> DNA
<213> Glycine max

<400> 28773

agcttggcta ttactttata catgcaacca atgagagaaa tatgtctata gtcatttaaa 60
gactgtggat ggggttgcttt acgaataaga gccagaagg aggcattgct gcctctaggg 120
aagctgccat gaatatggaa ttcattccaca aatctcctga attcagggtt caaaaccccc 180
caaaattcct tattaataatt gaaattaaag ccattctggcc ctgagcattt gtctccacca 240
caactccaaa caacatcttt aagctcttgg tctgaagaag gggcaatttt accctccctc 300
tgcctctgat caatcatagg gaaatatacc ccattccagag aaggctctgaa caatgtatct 360
tcagtaaadc tatggagaga gaatttgaga acttcattct tgactaaatt atgctgggtga 420
acccatacac catc 434

<210> 28774
<211> 245
<212> DNA
<213> Glycine max

<400> 28774

tattggatta tggagacccc gtcattatgtg gtactaggtg gcgatcgggc gatggcacia 60
atcaactctc ccacttccac aagtcaaaca taaacacacc atccccaatt gccaccttt 120
aaattgagct cagcactcc tacgtagccc ttatccttgt tcctctcagc accgggtctc 180
catcaacccc tccaagcttc cacaatatcc aaacaattct atttcattta tcatgagact 240
accat 245

<210> 28775

<211> 401
 <212> DNA
 <213> Glycine max

<400> 28775

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agcttaaaca ttcaacttcg agcgtctcga tatattacgg gactcaatca gacatccgag 60
taaaaaatta ttgtgggttg aattgggtca tagattcaac tttcaatttc gagcgtatcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaactagttc 180
agagattcaa cattcaattt cgagcatctc gttatattac gggactcact cagacatccg 240
agtaaaaagt tattgtcgtg tgaattggaa aagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagattc aacattcaat ttcgagcgta tcgatatatt a 401
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<210> 28776
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28776

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ntgagccaac tcanacgata ataactntnt actcggatgt ctgattgagt cccgtaacat 60
atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataactttt 120
ttcacggatg tctgattgag tcccgtaca tattgagacg ctcgaaattg aatgttgaac 180
ctctgagcaa attcagatga caataacttt ttactcggat gtctgattga gtcccgtaac 240
atatcgagac gtcgaaatt gaatgttgaa actctcagcc aatacaaacy accagtaact 300
tttactcgga tgtctgattg agtcccgtaac atat 334
```

<210> 28777
 <211> 306
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28777

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agctntagac tcaatgttaa gtgaatatta tttagccgat aaaatttaaa cattacattc 60
tattaatatt tgaaattttg tatctgaagg actattgttt cttttaaaaa aattattact 120
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gtattaagaa attataataa tattcacctc cctttgtag aaaagaagtt attaaggaat 180
 aaaacatgcc aaaattatga ggtgccact tanaattgac gtttatattc caacaatttc 240
 gtacaacagg tgcaagatgc aagaattctt aacaaaagaa tgcttctcct ttatattaca 300
 gatctc 306

<210> 28778
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28778

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 tcatagctnt tccaattggg tcttanaagt gttcacactt caaagtagta gctggagatc 120
 aattgagctg tatattgaga agatagattg caactttnta gggaattaat aaataattct 180
 gtagccattt tcatatgttc acacacaatt catgggtccc ttgtaaacat agttgttgct 240
 ttgcaaata tctactgcta nacaaaagna ttactgcatg gggatgttat aatctctttt 300
 attttattc 308

<210> 28779
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 28779

cacacagacc gcaaagttag ttttaccatg aaatgctact cttaacacaa atatggcata 60
 caacctctc caataaacac aaacataaat gtatatttag agcaaactca tgcacatact 120
 tccttacgaa cattcactct cacaatatat tactttaact aaaaagatgc accca 175

<210> 28780
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28780

agcttgtaga atggctagac atgatacatg tcanggttg gtttggttca aggataaaaag 60

ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttggga aactttatgc 120
 aaaactgggtc atgcatgcac ctatgtggac actcaagtgt caaattttta tggatcatgtg 180
 atgctagggc tcangattca tttcctctat tntagtcaac ccaacgtttc caaaatatgt 240
 tcttttatca atttgtgcat tcatccgagt ccattttggg cgtctgggaa aatcttcaca 300
 gcattcaccc ttcaggtgta tacacattnt ttcaaaaact agttatgatc agtgaaattt 360
 ttcatagaaa gttggagtca tctctttcaa agcatgttgg t 401

<210> 28781
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28781

taaagtatgc ccgagtcatt cattcctatg agatgttgtt gaagtattgg cgatcagaat 60
 tgccattcct tggattatag gattgaacca agtcatgct tttacaaaaa ggttcatcaa 120
 gtcaagttga aatacgggaag taaccgtctt gcanaattgt ggcaaaagat gaatcgagtc 180
 acatcactgc ttcacttact gccaaacata tttaggattg ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaaagt gtcattggacc atgttgaana tctaaattga ttcaacccca 300
 tattctgcgt aaaaatcgca atacttcaac ttacatcat 339

<210> 28782
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 28782

accgaaacgc ccagtgcgcg cgagcgggcc tgcacgggct ttaacactct catgtttcgt 60
 gcaatgtcgg ccagcggcac accggtgcc tgggcgcatg acgcagcggc cagcgcattg 120
 cgcacgttgt ggcgccggc aatgtgcaag cgcaccgggg cctcgcccc gggagtgacc 180
 aggggtgaact gccaggcatc gccagccac agcgcacgc gggcatggac ctgggcgcca 240
 tctgcagact cgccgaacag catgcactgg cgcgcagcgg acagctcgcg ccacagcggc 300
 gtgtatgtgt cgccggccgg gaacactgcc atgccatcgg cgggcagggg cagcatcacg 360
 ctgccgttct cgcgcgccac ggtcttgagc gtgtgcataa ttctggtgc tcg 413

<210> 28783
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 28783

atgagcacgc tcttttggtat cctgatggag attaggcgct taagaaccgt cttatgcccc 60
 ctcgagtacc tcttttaggaa gctgggggcaa attgccctgg tgaccctgct tcacc 115

<210> 28784
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28784

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 aaaaatgaac tgaacctcga acaaaaacca acagagcgac gcaanaagac agngcaacna 120
 gaaacttcag actccagcca agacgcgaaa cccaggggga gcaagacaac ccccgcanca 180
 acacaaagna aggaaagcaa caccacacacc cacgcgccag aacgcaaac cagacaaagc 240
 cgccacgagc aagagaancc aaaccgaaaa gagcagcgcc acaagagaaa acgcacagca 300
 gaaaccaagc acaccaagcg acgacanccc caagcaacaa ggccagcnca acaggacgcg 360
 accnaaccac cngcaccaaa cacacgcagg caaaccagg aacaaccaac aggagagaaa 420
 cccagcgaag ccacaacaaa agaccatacg cggaagacc ancaccgagc caaccccaca 480
 acacaaggca acgcgccacc agcagcaaga caaacg 516

<210> 28785
 <211> 564
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28785

acaccgcatg acacacaaat ggaaacacaa gggaggatgg tgaaagagag aggaaagcga 60
 cgagacacga caacaccaca caaccncaat gaaacttgag acctgacacn cccgagaacc 120
 ananaaannc aancnngaga aaccncgcna acnngcaggg aaaggtcaag agttgaaatg 180

agngcggcgc accgagacgg acgagaaaga gaccaccccc gccgcaccaa accagaagaa 240
 cgagatggcg gtgcaaccaa gccacgatcg agtggagacg aagcaccag agggagcccc 300
 ggagaccgc gaaggcaaca cgaggcgcca ataacagagc acgagccgaa acacggctac 360
 gccacgggag caccagagg aaccacgcg aacgcgacag cgcacggagg aacggatacc 420
 acccagcca acaccagaac atcgagagga gccagcaca gagagcgagg caacgnncgc 480
 cgaggaagac cccagagagg atctcgagga gcaaccaccg gagccagccg cggaacaccc 540
 tgaccacaca gaagaagacg agcg 564

<210> 28786
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28786

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 gcgtggtgag ctagctttat atgttcttcc cagagcagta gattcattgt ggtatatctt 120
 ggtgaacagg caccttcttc caaatatcag gaatgctgag gtatgccctc tagttacttt 180
 gcactgaatt aaaggaaaact cttttctgat ctgtttttct agcatcctcc aaaaataatt 240
 ttctagaact ctagtgacaa ccataatttg ctatgaaatg aaagtcagct tttattgttg 300
 atacctcttt tgatgtttnt aagttccaat atctatccgt gcagttagag aatgtgagaa 360
 ttttcttaaa agggaattaa gaacagtatc tctcaccatg tctcaaattg cagtatgctt 420
 gtcttttg 427

<210> 28787
 <211> 284
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28787

gacttattcc ttattggang gcaccttctn tcacgtctga tacattgtct tgcgctgcta 60
 tctccatgga ggaaaatcac ccattaagga cctcattgct gccaaagatc cagcctccat 120
 agaagcccca cggggcgctt acatcactgg ctctgaggat cgacgatgga ccaacacagc 180

gactatcatg gaaagcgggtt ccattggtaa aggtgacctg cggacgcaca tctggataat 240
atggcacgta ggaattaaag agtcctatgc cagccgccta tcca 284

<210> 28788
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28788

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taagagtagt gtcccaactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
ccccaggaa gcttgcctca aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt 180
ccgctccgga gtatgatagt caccgcttta ggagtgtgt acaccagcag cgcttcgagg 240
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gtcagggac gacgagtata 300
ctgatttcca ggaggaaata gggcgccggc ggtgggcatc actggttact cccatggcca 360
agtttgatcc agaaatagtc cttgagttnt atgccaatgc tttgccaaca g 411

<210> 28789
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28789

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atggcacctc ctctcacctc ttctcctttg tcttcgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
gcttccatca ctgcctttga ggatcgagga tagacgaaca aagcacctaa gaaggaagga 240
ggttccattg gtcaaggtga cctgnggagg tacatcagga gaagatgcca cgtgggaatt 300
agagagtcag atgcaagccg cctatccatc cttgtttgag tcaggtaaatt ttcggggacg 360
aaattttctaa aagggtagga gagttgtaac accctgagat attataagtt atatatcgat 420
gttttaa 426

<210> 28790
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 28790

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 ccatctttctc aactaaatct ctggcttcag caggggccat gtctccaagg gctccaccac 120
 tagcagcatc gatcatactt ctctccatgt tactgagacc ttcataaaaa tattggagaa 180
 gaagctgctc agaaatctgg tagtgagggc aactggcaca caatatcttg aatcttacc 240
 aatactcata catgctttct ccaccaagat gctgatgcc tgaaatgact attctgatgg 300
 cagcggtcct ggaagcaggg aaaagttttt ctaagaatac tctcttgagg tcatcccagc 360
 tcgtgatg 368

<210> 28791
 <211> 572
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28791

acccccacac cgtcaacatc tcacantatg ctctctatta cctactcnaa gacancgaca 60
 ctgaccntc caacaacaca accgcagaa aaatttgaga cttgacgacc tcgcaacacc 120
 gngacaactn aaganacacc gcttagagca ggcaagaaga caacaaccag cgcgaaatac 180
 ctcttcataa cggagccacc accaatgctg aggccgtcaa aaaaacaccc tccgaacata 240
 cgagcccttc atgaccatga agggctaaac aacccttggg tgaggagcgt accactaaac 300
 tctcgtgatg gaaaaacccg aacaatctat acaatgttag agctaggacc accgcgcctt 360
 ccggtgtgta tatatatgta cttgaggtga tcatccacct atatggcatg gtagggctta 420
 agcactgcc aagaggcgaa atccttagaa cctgaaagag catccaaaat gatccagtgc 480
 taagggaaat gtgcgtact gtgacacgct aagcgggcag gagctcgcta atcgagagta 540
 cagaccaatc ccagccgcag aacacgctaa cn 572

<210> 28792
 <211> 438
 <212> DNA

<213> Glycine max

<400> 28792

gcttgaagag agacaacaat ggtggtgaag aaaacgaaca agtaacatgt ttgaagttat 60
agagaggcgc gctggaagtt tctggagaaa gagagagaag atttggcttt tagaatggtt 120
tttcttttct ttctcatttt ctttctaaaa gcaaateccac atgtcatttg ttaattggag 180
cacaaaggggt ccacctttac ctttgacttg accgcgtact caaccctcac acaagaagaa 240
aattggacct tttcggacgc tgaaatecta cctcggattg cgtgttgccct ctccggttgc 300
atttgttcgc gtttctctac acccgctccag gcccatcttc agaggtaggc agtatataca 360
tatgtatatg tatatagata tatatatata tacatactct catctatata tatatgtcaa 420
gacgctcaca atgagacc 438

<210> 28793

<211> 271

<212> DNA

<213> Glycine max

<400> 28793

tgctcaagga tcgtagtgcg attgggcgcc attgagtgtg ttatgctcaa atctgggccc 60
ttctgggaga gggttggtgct tgtctggcct gtgcctcttg ttcgacttgt gtgaatcggt 120
cttgggtgctt ccttctcgtt tgctcgcgtt ctgtctgggt tgggtgactt tgatcttgaa 180
tctagacatt tcctctatct agatgaacct tttgcccggt catggcattc cgtcctgctc 240
ctatggggttt tttgcccaac tggcttcaac c 271

<210> 28794

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28794

tacccatatt gatgagttat tnttttaagt ctacattctt taactgtttg tcaaaanttg 60
atgcaatgtg gcgaatgcaa tacacataag atacatccgg tccaatccac ccaactcggt 120
ttgattgcaa agctgctagt aaagtgggtc acctgtctaa tataatacat aaatttggtt 180
aaagtgtaac atatctctc aaataatgca agaaccacat ccaaacttct ttgatctcgc 240

tctcaacaat tgcaaaagaa agtggaaaat tatttctact accatcttgt ctaatggcag 300
tcaacaaagt accataatat tttccagtta aaaatgtccc atctgcttgc tcaattggct 360
tgcaatattg aaagccttca atgcatagct tanaagccca aaatacacga ttaagaatca 420
cct 423

<210> 28795
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28795

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tccttatccc ttcacttttt acatcctttg tacatttgag cccttcatga ccatgaaggg 120
ctaaacaacc cttgggtgag gagctttcca ctaaactctc ttgatgtaaa aactcttact 180
atctatttaa tgttattgct agtttcattg ttccttcctg tgtttattta tatgtacttg 240
gtttgatcat ccatttatat gttatgtag ggtttaagca ttgtaaaata tggtaaattcc 300
ttagaacttg aaagagcatc taaaatgatt cattgctagg gataatgtgc gctactttgt 360
ctcgtaagc gggcaggtgc ttgctaactg aaagttatag accaatccca gctgtagaac 420
tcgctaa 427

<210> 28796
<211> 420
<212> DNA
<213> Glycine max
<400> 28796

tgtagggtta aagtctcacg attggcacgt gctgatgctc atttgttagc cgaggctata 60
cgagacatct tgccaaacaa agtcagggtta gcgataactc gcctgtgctt tttcttccat 120
gctatatgta gcaaagtcac tgattcagtc aagtttgatg agttggaaaa tgaggccaca 180
attatactgt gccagttgga gatgtatttt cccctgctt tctttgacat catgattcac 240
ttgattatgc atctggtcag agaaatcaaa tgttggtggtc ctgtttatct acgatggatg 300
taccgggttg agcaatacat gaagatctta aaagggtata caaagaatct atatcgtcta 360

gaagcatcat ggcagaacaa gctagacatg tattttacgt gcaagaccct tgtgatgaaa 420

<210> 28797
<211> 418
<212> DNA
<213> Glycine max

<400> 28797

cttaccatca gcaatgaaaa gatcttgata ttaaacagta atctttcaat tggcaaacga 60
ggctcatctt accaaaacag agcttaaaga aagataagat tgagattata gatatacatg 120
gaatatcata ggatttggtta ctactgtggt ctaattatct taatagatat acaaataagg 180
tgcttctcct agcacacttt caattcatat tcaatagtct ccaatggtaa cccaaacaag 240
aacttaatct tccatatatg cacaagcatt aaaggagaaa agaactctgaa agttcattaa 300
agtaatttgt cggtcagatt gtgaaaggag aaagaagggt acaccttcca ctctcttttg 360
gctttataga ttataaaaca gtgaaatggt cacttgctta agcaaaacag atcttatt 418

<210> 28798
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28798

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tcaatcaatt cattcacaaa cacttatttc atacaaaaca accactgaat caaattcaac 120
caattcactg ttcaaacaag ctttttgtac aagcactcaa caacactaaa ataactggaa 180
tttcaaaaga ctggaatttt aatgaataaa acataaataa attaaataac tgataaacta 240
aattgttcat aatttgtaga aattaaatca aaatagaatt taaacatcct gctcatcccg 300
tggttgatct tcattcatat ccaatactgg agctactgat gaatcctgaa tgggtgggctc 360
aggctccaaa attggtactg atggcaagggt ctctcanga gctggtgcaa gggatggctn 420
tggcatggga tttg 434

<210> 28799
<211> 333
<212> DNA
<213> Glycine max

<400> 28799

actaagctgc cgagcctacc gggttcagga tgcctcattt agttcttagg ccgactcccg 60

ctctacgaag cacgaaaccc tccaaattca ccggtgggca tgtctaagca tatcagagta 120

cagttggaat tctgaaagac atttagatta ctttaatgac ctaaggattg ctttcaattc 180

ataaatatta actttgacta tataacaggc atctaactga acaagtatgc gacgggaatt 240

tgataaatgg attctgaccc agtcattcaa ggtctgggca atcgcgctgt actgaagtac 300

atatgagtga tcacagttca aatggagtta ttt 333

<210> 28800

<211> 431

<212> DNA

<213> Glycine max

<400> 28800

actcagcttt gaaacaaact gccctggatt cgattactat ttattaaact ctcttgtaaa 60

agcttttggt aaaacttcat gtgctactca atgttttgaa aaacttttta gtacttatct 120

tgattgagtc tttttcttga ttcttgagtc ttgaatcttg atcttgatta ttcttgattc 180

ttgattcttg acaacttgaa acttgaaact tctcttgaat ctttctcttg attcttgaat 240

tgttcttgac tcaatcttga aatcattctc ttgggctttt tgtcatcatc tttgttatca 300

tcaaaacacc ttgaatcaat cttgattcat catcatgaag gaatgaagct tgtttctaca 360

tttaagacaa tacatgctga gccataccac ctggctgata tccaagatgg acccggtcaa 420

gtacatcttt g 431

<210> 28801

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28801

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gttgctagcg aanaacctct tttttctcac aaaacaaact ggaaagatat agactgcata 120

ctctcctatt ccttgatgata tgataacata tctctcact taaagaagta tcgttatgct 180

acctttaatc actttaataa taacacttgg tggaaggaaa aaagacaaat gctgtcatat 240
 attaaataaa acacaaatat tcctatacac acaatgtatc gatacccaga tatagacaag 300
 aatcattata acctaccatt agcgttccat tacgcggacc attgttgccc tactcattga 360
 ttgagcttaa tgtccaacaa gaataaaagg gtgaagccat atatggacaa ctagtctacc 420
 aattgctgta atcacccaag cgactttgac gtcgg 455

<210> 28802
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28802

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 acagagagtt ttacatttcn attcntacca aggcggacaa agagagaaag gatcgctcac 120
 accacgccta catatggaac gaaaagagaa tgcgatagtg agcgaaacga taaagcttga 180
 agaatgactc aacactgtgg agacgacata tcctaactat gcacaacgag gattagctaa 240
 tgaagggacc cactattgta tgatcaagct caagaggcct aactaagtg tgcgtaggag 300
 tacagtggca ggaccatgag atacacgcac ntaccgtaac tatagtaccg cgacgccgcy 360
 gtgagccagc cacagcgagc cgaaaacata cggtggaaca aaagccaacc tgaatcgtgc 420
 tgcccacaca ttgacttata ctacaccccc gccagactca atccccg 466

<210> 28803
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28803

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 atcgtctact acgaattaga gagacatatg ggctgacagg tatgtttgat tctatcgatt 120
 gcatgcatcg gaaatcgata aatcgtctag ctgcattaca aggtcaatat tggacaagtg 180
 atcattgcat acccataata atacttgaat gcgtgccgta tcacgacttg tgcatttgac 240
 atgcattatt atggagtggg ggattcaaca tgatgacatt aatgcgtcaa accacatcat 300

ttgtgttttaa tgacattntg gaagggtgag ctctctactg caatatacaa tgaatcgaac 360
 cccatataat atgagatact atattgtaga tgacgtttat cctgat 406

<210> 28804
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 28804

tgaactatag tattgctatc tctgagctgg tcatgccctt tacactattc gcttaaattt 60
 agcaacagag ttgccaatat gttcttccaa atttttcaac atttggtaca agagtgaana 120
 atatgttgga aaagaagagt gaaaaaccaa agatcatgca tgattgtatg ttaagcaatg 180
 aaaaaaagtt ggtgggggaa gtgagtatgg caaacacaa agcgggtgtg tgataatcga 240
 tctagtttgg atctttatag attttatttt ctgaattggc ttgatcctct gctctagaac 300
 agaactgtgt gacatttact tagactaaca ggctacatct tcattgtgcc gataaacacgt 360
 gatggatcag tttcgtgaac ctcaacagaa gccagttcat ttgccattat gtctgctggg 420
 aa 422

<210> 28805
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 28805

caagccgcag aaatacagca tgtcctactc catgtttaaa ctacccatat accacatatt 60
 ttgactgata catgtttcaa gatgctcgac tctagaacct agaacaagaa aactcggggg 120
 acgggagaat gaccatcttg actcatagta attaatacac aaactctcta tacacacttg 180
 aaatgcacac gcctctatca agcaaaaaca ttctgggcct cctagtcgca tatccatgaa 240
 cgaggccaac agcttgcata actcaccgac cttgaccttg atagaccgac acgtgatact 300
 acgattaata cccttcatgg tgatccacac gaactggctg atagccgaca agga 354

<210> 28806
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28806

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 atgagagaag tccttcccc atcttctact atgaatatta ttnggatgaa aattatattt 120
 ctgataaaact agtcaaggct ccccatgggt tagctaaagc agtatcaagt tttaacattt 180
 tcaattagtt gattgaaaact ttgtaatcag ccatagcaac cgtgagtcg tgatttccca 240
 taatttcaca gtgatactgc aaacatttta gaaacctaat ctctatctaa tcttactgta 300
 gttaatccat atctgtgggt atttgaaact ttttaagtat gcacttttga aatctccttt 360
 tacactataa ttagttggat gaatatattt ttgccctct tcaacaaatt acaaacactc 420
 ttcac 426

<210> 28807
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 28807
 agagcatggt gaactaatgg acgtcaatat ggccacaacc gaagctttgg aacgacaatc 60
 ctggaaggcc cgcttggtat aacacgagct cagccacagt tttgaggggc ttaataaggc 120
 agcaataacg agctcatgct ccgaagagggc gaaaagaatg atcacggggt acatgcatga 180
 tcttcacgga ct 192

<210> 28808
 <211> 563
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28808

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 ggctattcgt aaaaaaaaca cgagaacgaa aattgaaact tgagnacctg agnaccctcg 120
 aganaccggn ngaaaaatcaa acacgcacgc tgggcatagg acgacaagac aagactgagc 180
 ctttttgcct ttatagnacg acaagagagg gaaggtggac ataaactcac caactgacgg 240
 agacttccgt actaaaagga acaatattgc gcgacataga aggggagacc atgagatgct 300

gcagatgagc tagaagagcg ccacatatgg atggtggacg caacaagtta ggaacaacca 360
tagaacggct agagaaacct caaccgggat gattcccaga cgggtgtaaaa cccagcaacg 420
accagtaa atgcaaggga accaatcgaa gcaaaaatac gcaggctaac agtatcactc 480
tgtgtggtgc gcagaggaga gctggataga gctaccatcg catgagacgc aggactagg 540
cacatcaatg cgggcacaaa gac 563

<210> 28809
<211> 207
<212> DNA
<213> Glycine max

<400> 28809

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gttcgcgcta cacaccttga cccgtgctca ttggttgc atggacgacta atcgagtgcc 120
tcacgctaaa cccgaaaacc tgtgcggaat ataactcctt taaataggtc ataccgcgaa 180
tgcgcgataa gaaccattgc ttctctg 207

<210> 28810
<211> 403
<212> DNA
<213> Glycine max

<400> 28810

tctaaacttt atacaagaat gaagctctga taccacttgt tagacttttg gcctcagata 60
tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120
tcactctctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180
taagacaatt tgaatatgaa tatcaagcaa taataaacia aggagataaa gggaaaagaa 240
agtccaaact caaattatta ctggttcggc ccaccttggg gcttcgtcca gtccccaacc 300
aaccggttg aaagtccac tatctggtaa attcctttta caagtcttaa ccacataagg 360
acaatccttc cttgggggtta aaaattcctt aacaccagaa aac 403

<210> 28811
<211> 429
<212> DNA
<213> Glycine max

<400> 28811
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ccgacttggg ccgcggcggc ggcgaggagc ctgacgggtg ggtcgagggg tggaggcggc 120
ggcgcgacag agacgggtgg ggtggatcgg cgaggcgagt actcagcgct gtgccgatgg 180
acgggtgcaca atttccctcg gataaaggct agggcacttt ggagcaagta ctttgaggta 240
ggcggttacg attgtcgggt gctaataac cccacgggtg actcacagga gctgccaggt 300
tacatctcca ttacctcca aatcatggac ccccgcgga cctcttctc caaatgggac 360
tgtttcgcca gctatcgctt ggcaatcgtc aacctcgccg acgattccaa aaccatccac 420
cgcgattcc 429

<210> 28812
<211> 300
<212> DNA
<213> Glycine max

<400> 28812
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gaaaagatgg gcacaggctt ttggatagaa cgaagactgc aatatcgtag ggtttgaaga 120
acactatgac acctgaaagt gtcgctctca ctctacgct tctactgtac acacaccaac 180
cctatgtgtc atgacccatc agtcaatcca tgcattgtct gacacgctaa gctcactct 240
ctcacttagt acacatgtaa tcaagtccac cagcacattc gagactgaat ggtatacgct 300

<210> 28813
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28813
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cgtgagctca gttgaagggt ggcaactggg gatgggtggg tcatgtttga tttgtggaag 120
tgggagattt gatttgagcc atcgcccgat agccacctag taccacatat gacgggtacc 180
ccataatcca acaagcttga tgtgagaaag cgtggaagag tcagtcttcc tacttttgtt 240
tgttgaccac agagtggtag ctggagatat gtcacgggga tcaggagacc ttggggacgt 300

caggtggggt gctattgccc aaaaccaagc ttgaccaatc ccgacccaac ccgggcatag 360
 tcagtcagtg agaacctgtg atgtacctaa acaggcgatc tcctggcagt caaccaataa 420
 aagaacaaag tcca 434

<210> 28814
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 28814

aactcaagct tcaagaaaaa gatggcctcg caaatcctt atttcctgta ggaattcttc 60
 tataggctct tatgttcaat ggtgagggtt atcattattg gaaaaccga atgcagatct 120
 ttatagaagc catagatcta aagatatggg aagccattga atttgattcc ttatttccta 180
 caatggtaga gagaaatgca actatataaa aaaaaactag agaagaaaga agatgatgat 240
 gaaagaagaa agaagaagat tcctctttag ccccaaatg ctaagtgcga tcaacttggg 300
 cacatgagat tcaattgtcc tgtgtttaaa agaagaatgg aataatccga caagatgaat 360
 ttcaaagaga agaaagaaaa gaaaggatat atcacttggg aagataatgt cataaattat 420
 tcaagtgatt cagaga 436

<210> 28815
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28815

cccccccca cgaccgggaa atagaaaaca cagcacaaaa acacacaaaa aaaaagaaat 60
 gaactgagcc tgaaacggaa cnaaccnaac ngacagagca acccgacacc gatgtacaca 120
 ttttgggctg gaggcnaag aaagggggcg cggcggaaga caggccaaac cactacccca 180
 agaaagaacc atagcacccg ccactgcga agagaagcca cgaacacgaa caccttaaat 240
 aggacaccaa atcacacaaa gggaatacga ggacaaggcg aagccgaaca aggagacgca 300
 gggaaaagaa cgggacaaca cagagttaaa cacggggcga cacaccctcg agccaacggc 360
 cagtaccga gcagcccaca gtgagagctg cgccatcagg ccaatggcaa ggacacgctc 420

taaaccacaag aggacaaaac tagcttggcg cgtagaaacc ggaacaacaa gagacacacg 480
gactcgcacc ccttaggaat gaggan 506

<210> 28816
<211> 253
<212> DNA
<213> Glycine max

<400> 28816
agcccagcca ccatttttcg gtaagaactt atcactacgc ctaaatacaac gatgtgcttg 60
agctgtatgt caccttgtag ctatgacgct catctgccaa ccaactcatc atccttgatc 120
tcataacggc aatgggtgtca ctgaggctat tgcacgacaa tagtttatct tgtaagcttt 180
gcagagcacg aattgtatat ctaccgagca tatttatcca cattggcatt agcctgacca 240
cattccagag cat 253

<210> 28817
<211> 427
<212> DNA
<213> Glycine max

<400> 28817
tatcactcca agggtcagct atgaagattc atgggatggt attaaaaacc ttctatgagc 60
acaatcacca aaactcactc tccaatgaa taatgtcctt cgagaagaag aggaaaagat 120
aagccaagggt ttttgagaa agtgaaatct ggaatatctt atgggttaga gtagtttatg 180
acacttgaaa gtctccctct cacacctagg cttctactat acacacaaca acccttcctc 240
tcataaccca aaagtcaatc catttaagct caaacacact aaaactcact aactcacata 300
aaacacatat aatccagtca acaagcacat taattaatta attttaaaca ctttaattaaa 360
tttaatttat cttgttatta aattaaatca cttataccac aattaataat taatctcgac 420
attacat 427

<210> 28818
<211> 427
<212> DNA
<213> Glycine max

<400> 28818

tcttttgaac tatttggaac aaccaaagcc ttttcagttt gtatgtttta agaacattga 60
gctataaatt cttattgaaa tttgaaacat ctaccotttt accaaataaa aaagaataaa 120
attcaattgt atttggggct atgtgttttg ttttgattat tgtttctgga aattacactc 180
attttgaaaa aattgtaacg tacaaaattt atagcttgct ctgaacttgt aacagctact 240
ttggcaccca tgtttcacat gcttggtttt tttgtatttt gtacgcttga gctgtatacc 300
ttgtgagatc aaaataacat gtcactctct acttattctt tctattatta aatattgctt 360
ataattatgg cacgagaaat tcttagtgct gaatcttcaa ttcgcaggag gagtgcctgc 420
agagact 427

<210> 28819
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28819

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taccttccta gcacagtgtc caagtttttc tctgttgct ggttggtgat cctcattctc 120
actctcactc tcagctaaaa ggcgcttagc agtgccagaa atatcagaga aagagaaaaa 180
agtctgaaaa tgtgatgtgg cttttgttaa ttcttccttt ccattatcct ttagactgca 240
aggaagcata tgggtgagtcc aaccactgg aacacaaatt ctgattatcc cattttgtgt 300
tattgtcagt agcagagaaa taaagcccaa tagcatcaac tctgaaacga agacagaaaa 360
cagaaaagga aaaaaatatt gcgaaattaa tcacatccca attntcataa cagaagtccc 420
t 421

<210> 28820
<211> 422
<212> DNA
<213> Glycine max

<400> 28820

tttgtaaggg atgtgaacga gatattgtgg gatatatatt tgggaaggcc aaacaataac 60
gacatcaatc gtctactaca aattagagag acatatgggt tgacaggtat gtttgattct 120
attgattgca tgcacggaa attgaaaaat tgtctagttg cattacaagg tcaatattgt 180

agaagtgatc attgcaaacc catagtaata cttgaaggcg tcccgtaca agacttgtgg 240
 atttgacatg cattattatg gagttgtgga ttcaaagtat gacattaatg tgttaaacca 300
 atcatttgtg tttaatgaca ttttgggaagg ttgagctctc tagtgcaatt tacaattaat 360
 gtaaccccat ataatatgag atactatatt gtagatgacg tttatcctga tttggatact 420
 tt 422

<210> 28821
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 28821

taaaacttgt ttgcattctc ttgaattcac gattgtcatc atcaaaaagg gaaagaatgt 60
 ggaagcaatg ccctccaagg gtattttgat gatgccaag aatcaagagt taatccaatt 120
 tcaaagattc aagaatcaag tttcaataat ccagattcta gattcaagaa tcaagcttca 180
 agaatcaaga ttcacggatt atccagatca agattcaaga ctccagattt aagaatcaag 240
 agaagactta atcaacatat agccttaaaa agtttttcac aaccttgagt agcacaagat 300
 attttcacca aatcattacc aaagagttta ctctctggta tcaatta 347

<210> 28822
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28822

gcgcgggtct gggagacaaa ggtcaagtgg tctttatatg ctaagatgat gttccgagta 60
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120
 aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggttttt aaaagctcta 180
 tagttggggc taggctttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg 240
 aatttcta atcaggagacct ttcttcatct gttcctgcgt ctctacccat tctcattcat 300
 ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcctc cgaagggtact 360
 aatacctgng acccgcttat cgacttcgag caagatatga atcacacgga agatgaagga 420

aatg

424

<210> 28823
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28823

atgaacttga tacttttgan cnttgaaana nctcgganag aancacncca ganagngtna 60
gggaccacca caattttcat tttcaaatgn atgacgagcc gacgagacca acggtgtact 120
aatcgcccaa aaaccacatc ancnttatct aaaacagtat atatttagcc gctcatctta 180
agagggtttt taaaggaggt gtaaaaacat actatcatgg tgcccatcac acatgagacc 240
actaagagaa cctcacacta tctagaaaaa cgcttcaagt caagattacc tataacataa 300
ctactaaaga tacgattgag agcttgttct actccgaatc cttgaagagg attctcaaga 360
tategctcca ataaaagcgt tcctctccat gcgatggtct gggtgcaatc aaccacagct 420
cgctgcgggc actgategtc atgaaactag gacgacgacg tctctatccg 470

<210> 28824
<211> 361
<212> DNA
<213> Glycine max

<400> 28824

tatatcgaga cgctcgaaag ttacaaccga gactagtagc aaactcaaac gaccataaca 60
tatacctcgg agagacgatt ggggtcccgcc atatatcgag acgatcgaaa tttagaccg 120
aagctcgtag cacatacgaa cgacaataac attgcactct gaagaccgaa tgagtccggt 180
agtatatcga gacgctcgaa atgtaaaact gaagcctgta gcagattcga acgacaataa 240
cagtagctc gggagtcga acgagtgcac ggatatatcg agacgctcga aatttacaac 300
cgaagctcgt gcgaattcaa ccacaaaaca ttcactcgga tgtcgattga gtccgtatat 360
a 361

<210> 28825
<211> 403
<212> DNA
<213> Glycine max

<400> 28825

ttttgggttc tactacaaat ttacgtcatt ttaaaattcc gaccgcgcca atgtgaccaa 60

ggttttagcga acgtcacaaa aataacatca attttatata aaaaaatatt tttttaacgt 120

ctcatttttca aggggtttttc aaaggaggatg taaaaacatc ctatcatggg acccaaaaca 180

caagagacca ctaagagaag ctcaaactaa ctaggagaaa ggcatataag tcaagattac 240

ctaaaaaaaa actacgaaag aaaggattga gagcttggtc tccaccgaat tcttgagggtg 300

gattctaagg atctcgttcc gattaaagtg ttctctcca tgcgatgggc tggtgccaag 360

caacgacagc tcgtggtggc cactggtggg catgagtggg gga 403

<210> 28826

<211> 348

<212> DNA

<213> Glycine max

<400> 28826

ctaagcttct actttattgg gattagaact ttttgggttct tttatgggaa gtgctcaata 60

tggggcattt gcgcgtttct ggcttgattg ggtggattgg gggtgatggg atggccctac 120

gcctataatg attttgaaca tggggcatgc cacattgtcc cgtctcttgc tattgatgcc 180

taacgcgcgc ccaccagggt cgggaaatgc ctaatggcat tacgtggact tgtaagggaac 240

aaccatggg gctttggttg acatatttca tttttggaca tgtatcttcc caaaagctaa 300

atattgctcc atattctatg ctagaccaag tttatcaaaa acacaaga 348

<210> 28827

<211> 268

<212> DNA

<213> Glycine max

<400> 28827

gacgactggc ttaacgtatt tactctcgga accttttcgg aacgcagctg agctcggata 60

atatacttgg gactaatatt ccatatttac cgtaacagag acaaaagagt cctaggcgcg 120

atcaccatat tctctcatat acaagccctt atgtatatgg aactacgcg gcagatatag 180

gtaacaagat tcaccctga cacaagagg ggccatactt cagctcctat ctacatacct 240

tttatctgtg ctaggatgag atgctaaa 268

<210> 28828
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28828

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accgccgcca acacnatagc atngaaaaaa cagtgaacat gcacaggcac gcgaaccgat 60
gaacaaacca caaaaagaga aanattgaaa ccttgaactg cagacccttg caaaccgnga 120
actanagaaa acncaagcgn ctaccaaaga gccagcagc gattggcgaa acgagacata 180
ggaccaccac gccagaaggg ggagagggac cactgaaggc aaaccccgat gccgaatttc 240
ccagctgcga tacactgaag agaccatgcc accaccccg ttagcaaccg acacaaacac 300
cggaggaaaa agaggaccaa cacaaaaatg gacaaaaccg aggccttaga cgacaggaag 360
cactcgactg cacaagacag agaggacgga gtacgagaac accacagaaa aggagccgaa 420
gaacgaaact ggaggagacc gagccaccac agaagacggc agacgacgag gaggtgagaa 480
accacgacaa gaaggacagt gtgcggaaac cacgaaaaga accacgcagg gagcaaccag 540
gacaggagac aaaac 555
```

<210> 28829
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28829

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tgccacccaa ctcgccagg cgagcaaggg tgcttccttc ataagcaaca gccttctgga 60
ggaatcttct ggagggccca agtgggcctg gttgctatct gcaccccat ttttctaat 120
acacccctg cctttttttg gtgattcttt tttcgtaaag ttacggaaac ttatgaattt 180
cgtaacgata cttgttttct tctgtaatg tcacggaacc ttgcggatta cataatcatc 240
ccttttttga cttacggaat gttacgaaac ctactaatt gtgcaacgat gcttcctctt 300
gatttccggt gtgtcacgga accttacgaa ttgtgcatca atattttctt ttgatttccg 360
gcacgtcacg aaatttcaca aattgcctaa tgatgggtgt caagcacctc anaatgac 418
```

<210> 28830
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28830

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggaattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tttaaataatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagatcta 420
 ngataaatgc actaac 436

<210> 28831
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28831

tcagaccaca acaacacana atctaggtat ccaaaaccct tcaattttat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaggta aatttgagc aaactctcac ctcacacaag 120
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc actttggtca 240
 tttgtttttc tctcttgtag agcccaagct ttctcataag tcctaaatga catttcaagc 300
 taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360
 caaaacctca ctctttttcc actcataaca ccatattctc actttctaac cctaggttaa 420
 ctctaccctt ctcttc 436

<210> 28832
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 28832

cttaccggtt gaagactgaa gaaaatttta cttttgatga atctcgaaga acggtcgaga 60
atcttcggtt aattactcac ggaaacgtta cggaagcgcc tcggcttgga tcattctcat 120
ggaactaatt ttcttcagca atttcgagag agagagaagt gcctaagggg ttgaaccctt 180
ttctttctca cttctcccc tatttatagc gaaatagggg ttgtatatcc tcaaataata 240
atccccggac aaaattaggg tatgacagtt gcccctcttt acttacctct catcgagat 300
aagaggaaag caaagataag aactgattt cgtccgtcct gcccttatcc gtgatgacga 360
ctctcgtcta tactccttct tttgttcttc tgcaccaaac 400

<210> 28833

<211> 386

<212> DNA

<213> Glycine max

<400> 28833

cgcttcacaa tctccaagct tttgatgatg tttacttttg tggatcatgaa acgcacacac 60
acacactttt tcctatgacg atcactcaca tacatactca ttcttcccat ttgtttttga 120
atztatgctt ctcttgcaat tacgggtgatt actcatgtga gttcttgatt taatccctat 180
atctctcccc ctttggcatc aacataaagc cggagtgcac aacacgtttg aatcatgcaa 240
atacatctaa gcatgcacac aatatttatg aaatatataa tgcaaactcat gactcaggaa 300
ccatgactct atgaccacga agagatcaaa tatagaatcc gcatagctaa ataacataac 360
taatatttat tcaaacatac catgca 386

<210> 28834

<211> 88

<212> DNA

<213> Glycine max

<400> 28834

gatgggtggg ccaagacgga tatcaacgat gacgatgatt ccaagttgtc taacatgaag 60
attgatgcat ttgttgaagt tcatgaga 88

<210> 28835

<211> 365

<212> DNA
 <213> Glycine max

<400> 28835

taacagcttt acccatctac ttgtcgcctt ttttcagaat ccctaaaaaa gcggtgtata 60
 agatagtctc tattcaaaga aactttcttt acaaaaaacct tgactaatat caagcatctt 120
 ataacttcta aggagttatt tactttcaaa aaagcaaaat taattaacag atacgaacct 180
 tcaactatac agactattga ggctcttaat cagatagcaa agaatgagga aatcgatcta 240
 tccgcccaatt ttgtcgcaaa aatagctaca aattctaagc agaacctcaa aaaagcaatc 300
 atggctcttg aagcatgcaa tgcacacaag taaacttctg actgacaaca tatttatttt 360
 aacat 365

<210> 28836
 <211> 58
 <212> DNA
 <213> Glycine max

<400> 28836

accgtcgttg ttctctattg aacacccaca ccgagaggaa cccttcaacc gaagcgga 58

<210> 28837
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28837

tcatgatgaa tcaagattga ttcaaagagt ttgatgatt ataattatga tgacaaaaag 60
 ctcaaaagtc aataacactt catgataaca aagatgatga tctcaagaat caaagaatga 120
 gttcaagatt gaatcaagta cacttcaagg atcaagagga aagttgaatt caagaatcaa 180
 gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240
 aagaatcaag agaagactca atcaagataa gtattaaaaa gttttttcaa aaactgagta 300
 gcacatgaat ttttctcaaa accttttact aaagagtttt tactctctgg taatcgatta 360
 ccagattatt gtaatcaatt accagtagca aaatggtttt canaaaaact ttcaaactga 420
 atttacaat 429

<210> 28838
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 28838

gagagatgaa aaagaggaat ttttttttga aaagtcaaag cagataacaa acaattttatt 60
 ctcatTTaaa atatataact ttaatatattat tccattttttt gaaattcatt tgttttgttat 120
 ttccttattt taacaattat atacatagtt gaattccaaa agaaaggcat tccttaggtg 180
 cacattttttc tatttatgct tgctgattca agacatgttc atccagatga cattgataaa 240
 attatatcta tagatatacc taaggcaacc aatgatcctg aattatttaa agtagttgct 300
 tgtttatgat tcacggcccc tgtggaactc aaaattacaa atcacctcac atgcaaaagt 360
 g 361

<210> 28839
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 28839

accaagaaaa aaccactttt acatgcccc ttggtgtctt tgcttacaaa aggatatcgt 60
 ttgggttatg taatgtccct gccacctttc agagatgtat gctagccatt ttgttgatct 120
 ggtaaaaaaa tgcacgatg tgttcatgga ttatttcttt gtctttggat tttcctttga 180
 ccattgttta tccaacttgg aattgggtgtg accacaagat ctctgtctga gggattgaag 240
 tggacaaggc aaaaattgat attattgaga agttgcctcc acttatgaat gtgaaaggca 300
 tccaaagtta tctcatatcat gcccgacttc tatcgagggt tcataaa 347

<210> 28840
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 28840

tgaagaaact gtctacatgc agcagccccc aggtttcgtt tatgacagta accttgtttg 60
 taaactgaac aaggctctct atgggctgaa gcaagcacct tgtgcatggt ttgaaaagct 120

ttcagcaact ctcatctctc ttgggttcaa ggctagcaag tgtgaccctt ccttatttgt 180
atgtcatgtg gaaacacaac ttatgcgctt gtctatgtgg atgacataat ccgcactaga 240
aataatagtg ttctaattca gcaacttatt tcatagctaa actctatttt ctctcttaaa 300
catcttggca agttgggacta cttccttggg attgaagtca actataattc cgcaggttct 360
gtcatgcttt ctcaaaccaa atacatctca gatttgcttg aaagagtaaa tatggaaaaa 420
gctaaaggaa ttt 433

<210> 28841
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28841

acatcttaaa tntcatgcct attaacggaa gtattgcact tctgactatc taggatcccc 60
atattttgta tgtaatataa actcatcaca caattataca ttgatatgcc caaaatgagt 120
tattgctggc aaagtctata cacatgtttg ggattactta tatttaacat acgcataata 180
caaatattgg aagaagcaac tgcaaagcc aaggcgcata tgttaatgaa gttgtactac 240
aattcatttc ctcaaggacc ttagcacttc acttgatga cttgactcta tagccggcca 300
catatcatgg agctttgcag agatgttatt tatcaagttt gtaacttcat tataactga 360
ttgttgatgt tctacctgat cattcgctac ctcttctggc atccttgaga tatgtgaatc 420
aa 422

<210> 28842
<211> 410
<212> DNA
<213> Glycine max

<400> 28842

gctttctcta ccgtaccaca gatattatcg gccagagggc attttaagat ttgcgctttt 60
tcggcagaaa aatatcatgt cgggctatat aacgaccgat gtcacgtatt tgtgtctcaa 120
ttcagtcctt gaataatctt tggatattgt ccaataggat atgctcgatc ggcgtcatca 180
ggtgatgctt gctttttatt ttatacctgc tggatcggtc atctttcctg gccgacatcg 240
actatcattt tttttatcag tgctcggtgaa taatgttatt tggccgaggt gggctgatgt 300

ttttctagcc gattaaatga taacacgcc gttgtcggcc gaaacacaac tccagttgag 360
ctcgcacgat aaaacatagc cgacctacat tgtcagtttt gacgcgacac 410

<210> 28843
<211> 434
<212> DNA
<213> Glycine max

<400> 28843

actagctgaa gcgattggga aagtgaatgg gttgagatag gatttattga gaaagagaaa 60
aaaaaaagtg agagagaaaag agaaaaatct tgtgagagggg aaggggtgcac acaacaacac 120
agtctatatc tattgggtcat ctcatataaa aaaaaataa taaccpactt aaaaagacgg 180
gaagagacaa cgtggcagac acgtgaggtg catgtgcgtt caatcagggg cgtgcatgtg 240
ttgtgttact taaaaaact tcaaggttca aggaaacgta cacaagagtt gtaatatatt 300
catattatta atatatcggc acattaattg atattgttaa tttattgtct tgatttattg 360
gcttgattct ctgtactgtt ctgattcatc tcatcaatct tcttattctg taattctata 420
ttatattgtg cgtt 434

<210> 28844
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28844

tcaaaactcg ctgactagt gctaggaata ganatcatgt tctgtattta attatagaag 60
actttttgtt tgtacagata gtagcataag atcgatatata gttcgcatac aacggaaccg 120
ttggttttct gtgtatagct ttaactacac gttgttggtg aatacttaag tagaatggta 180
ctatagccat ttgcgtttga gatttacacg tctgaaaca ctgggtgttg ccattttggg 240
tgtgataatg ttcaggatca agttgttact tactatctag tatcttcagt ttgaaaaaat 300
aggtcacaca gagatacttt ctgtaggcta aaaattggga gaatgaacta tctagatatg 360
tgcttattaa aattaggtaa ttcataccat tatcttagtg taaatatggt taactataaa 420
cttgtaatat ata 433

<210> 28845
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 28845

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgg cgatcagaat 60
 tgccattcct tggattatag gggtgaaçca agctcatgct tttaaaaaa ggttcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaattgagtc 180
 acatcactgc ttctgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcttgctg aaaaattcgc aatacttcaa ctgtgcatca ttgcgcatgca tccatgcttt 360
 tcattgggtg cattgctcgt tgcattcttt cctttgaaaa taaaataaaa tgaacttaat 420
 cattgttat 429

<210> 28846
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28846

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 tcttccaagg aaggaaaacg cgtggagtcg ccaccaatgt ttattcaagg aaaacgtcag 120
 aaaaaccaa aatggaaaag gtcaagggtc tacgtatttt gaaaatgagg gttcgggaat 180
 catttacgca tggggaaaagt attagcacc cactgacca tcacaaggga cgacaacctc 240
 taattgagtg tgcaaatcat gacttcaaaa ttgtatattt tcccttttat atgttttttg 300
 tgtatattcc ctttttatgt tattttttta tttttggcc tttctacgct ttttactttt 360
 ttgtggtcca caaaggtttt tccctcactt ctacgtattc 400

<210> 28847
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 28847

tcatgttgta ttcacagaat caaagtaacc ttttttctct agattcgtga gaactaccaa 60
 ttgagaagag gaaaagaaga taacctgtca cggaggatga agagtgtaaa ccgaactcag 120
 aagagaacaa tagtgattct gaatcccttc catgtcatta caaccacaca ctttaccaac 180
 caccacacac tgcacgggtc gcagaagaaa cacacacttg gogtcttgga cactcgcact 240
 tccacttcgc atcgttgccg cgaccacccc gcatgcgcac cttgccttgg ctttcgcagt 300
 cgcacatcgc cacaagtaca ggtgctggga tagagtgatg gaacaactga gatggagt 358

<210> 28848
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 28848

gcctagtctc atcggcgacg actcatcgga tttttgggtg ggtttgaggg tccaaaatca 60
 catctgagtt tcaatTTTTG tatcccttgg ctgatgctct cctcgccgat tttgacggcg 120
 acatggtgga agatcgctgt gtttaaccgt agaggtggtg gcagatccag acgctgattc 180
 gaataagaaa acgttattca tggacaaaga tgatcaagaa gatgaacgtg taccataaaa 240
 tgtgattctt ttttatttgt agaagctgaa tattattgcc aaatgaatgt ggaagctgat 300
 atgcgtttca atttatatgc tttatattat tgaaacatta agaaactgct ttatatgcgg 360
 tagtatatat atatctatat atacatatat atatatatat atagatatat at 412

<210> 28849
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28849

tntaaaaatc tattatggta tatatatata tatatatata tatatatata tatatatata 60
 tatatatata tatatatatt ttcgtataag agttttttaga cataaagtat tttgaccccc 120
 tttcaaattc gttcacccta agaattcatt caacacttag ttctcctaaa atgttctctg 180
 gtaatcgatc accacaatgt gtaatcgatt ataacaaggc aactaagtg taatcgatta 240
 caaaaaaatg taatcaatta caacacgtcc ctgatgctta taaattcaaa ttttaagaatt 300

cacgaaactg caacttcgtc tttctcgcga aacccttatt cccaaatttt ctttctacca 360
 taactaactc atttcttata caaatcacgt cccacaaagc ccaaaattca tcttttttca 420
 ttcn 424

<210> 28850
 <211> 437
 <212> DNA
 <213> Glycine max
 <400> 28850

taccattctt gtggcacgct atcgaccgta ccgagtcttg ggtgtcactg tttatcatcg 60
 cgtgaccgtg cgtttacttc gtgtactggc tggcatgact ccgtcttcga cgagacactt 120
 gttcgcgatg cagcgatagg aaacagtgtc gagttgaaca tgagtaagag caaagttgac 180
 tgctttacga ctgtgcgtta ttctgggact atgcataatc ctgtatactc accaaggaca 240
 ttcaccattt atagtaggta tttatcgata atggatgatg aatttgtacc acgcatctcc 300
 gatgggatga gtcttgcttg tctactcta gtgtggaagc aaacctgtg gcttcataca 360
 cgctctctt ggattacaga ttgcataact tgtgctgaat atcaactgct agctctagat 420
 agtagtgatg tttatcg 437

<210> 28851
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28851

tgagatgagg aagtgttgaa tggatgaaact tctgtctttt attgntttcc acagagtggg 60
 acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcagggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
 agcaaggagg cttgtggtgg ctggccagct ctggattttg tgtgatatgt ggagtatggc 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
 aggctaagat ggtctctggt aatcgattac caaggggtgt aatcgattac caggctagaa 420
 aacgaagtca g 431

<210> 28852
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28852

taagctataa gaacggactg tcacttgcac agaacttccg gtttgtntat tagccaaaca 60
 ttatttggca aaaggtacgc aagtgaaaaa taaaaacatt agtgcaacaa taactaaaca 120
 aatatgtatt cctgtatcaa tttctaatat atagtataa ataccatagc aacatataat 180
 ttgattcaat gtttcataca tatagattgc aaacttgggg gaaattgtgt aaggaatatg 240
 ctaaactctgc aacttaagaa caaagcata taatattggt tatggaaaag acataggga 300
 gtcctaacct gattatagat gaggcgttcc agacataagt caaataattg taccatattt 360
 tatcaaggca ttacattca caagttgtga gttacacaaa aggatagtga gtatcacaaa 420
 gtcctta 427

<210> 28853
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28853

tccatcatag ccgcaattga tgctttcctt gcataccacc ttagcattga gagcccggng 60
 gtagctatct tggcggggtt attttacaca ttgactgaa gatgcaaaaa gagtagcgca 120
 cggatcatct gttgtttacc cgctctatcc ttgcatatca cttaaagtgc gtagaccacg 180
 tcttttccgg tttttctgat gttttcctca aataaacgtt ggtggcgact ccacgcgtat 240
 tcctttcttg gaagacgcac ccgcgagtc acgcgtcgcc ctctgccga agggtaagtt 300
 gcgacacacg ccctcacctt cagaggacta cgtgtcctcg ccatcagagg gctggacgcc 360
 ctacacctta gaggactaca cgtcctcgcc atcagagagc tgcacgccct caccttcata 420
 ggattacacg tcctcg 436

<210> 28854
 <211> 413

<212> DNA
<213> Glycine max

<400> 28854

tattaaaaat cacgtatattt tatatgttgc atttcatatt attgaacttt ttcaataata 60
tttgtgatta taattaattc taaagattgc attagaaaaa aagtgtttta caaaaactat 120
tataccattt taattaatca tgactttggc gtaagatatt taatgatttt attgactact 180
aatttttgac gaaggatttg attgagtttt tcaaccagtt tttttttttt tttcgatttt 240
gagatcttga ttcaggatta aatttaattc tacttaaaact aattatgtaa taaaaataaa 300
aaatgagtag tttttttttt ttgttttaat tcttctgttg aaaaaataaa acaggactaa 360
gaattgtttt aatacagtga taagaagtgt cctcaactat aaatggagga aaa 413

<210> 28855
<211> 409
<212> DNA
<213> Glycine max

<400> 28855

tcaacattca atttcgagcg tctcgatata ttacgagact caatcttaca tcagagaaaa 60
acgttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120
gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180
gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240
aaaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcgat 300
atgttacggg gactaatcag acatccgagt aaaaagttat tgctggttga atttgctcaa 360
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactccatc 409

<210> 28856
<211> 389
<212> DNA
<213> Glycine max

<400> 28856

tgtaatcgat tacacacata cttgaatcga ttaccagatt attttttcag aaaacattct 60
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatac tcttataaag 180

agaaatcggtt ttatctctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240
 ttatttgagc gctcaaattg atcaatctat ctctttcaag agagatttct tcttttcttc 300
 ttcttcattt tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa taattctaaa 360
 cacacaggaa tgcgtgtcct tgtgtgttt 389

<210> 28857
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 28857

tgagaagctc tatgcgaagt gaaacaattg attaggattt tcagattata gaaagatatg 60
 aatgagttaa ttgattaccc aattagctaa tcgattaaaa ttgttaatac tataaatacc 120
 tttgcttatt ctactacaa gaaaaaatga ttttaacgag gggtattttt ggccttaagg 180
 aggggtttaa cccccgtaaa gtatgttacc tattgttggg gttctcattg gcaaaacatc 240
 cacgataaat ggtttaccaa tggcttttgt gaacccttta aaacacaaga attacttgat 300
 gttttgaaac ccctggtaat taccaagggt ttattaaccc ctattatcac cacaatcatt 360
 gctggacgat ttaaaaccct tggttcttat t 391

<210> 28858
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 28858

gaccacagac aatggcttat agctaattcg agcgctaatt ctataaaaac taatgaatgt 60
 ttatgaaata ttttgggtga ttctgaacaa agcttgcttc tactcagctt ctgactttta 120
 ccacacgtca tcgaaattgg agcaactctt ttttaccxaa gttgaaacat tgacttttat 180
 gagttctaag gcaaggactg aatcctcagc atagaaagtc tgtg 224

<210> 28859
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 28859

tctagccaaa tggacttacc ttgaattaat ttctttgatt gccctttaga gccttggttc 60
cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atttccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct cacaggctaa 300
agagtaaaaa aaaaaaaaaa aaaaaaatcg aaaaaaaaaa ttcgaaaaaa gaaaaagaca 360
agcattaaag ttgagtgaat aagatcttaa atggcacaag actgatgaaa ctcttggttc 420

<210> 28860
<211> 367
<212> DNA
<213> Glycine max

<400> 28860

tgatcaacac ttgcacagtg gtcgatgatg catgggagat cctgaaaatc actcatgacg 60
gatcctccca agttgaagat gtccagattg caactgttgg ctacttaact cgggattctg 120
atgatgatcg aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat 180
gcttgactg tcttgggaga gaagatgaca gatgaatagc tgggtgagaaa gatcctcata 240
tccttgccca atagatttga catgacagtc actacactag aggatgcca cgacatttgc 300
cacatgagag tagatgaact cattgattct cttcagacct ttgagctagg actctcggat 360
agggctg 367

<210> 28861
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28861

tcttaagtag cctctcttgg tgctcagaat atcccaataa cntatccctc ttattactag 60
ctattgtgaa ttcttttagt cctgaatgta caaccttaaa attgttgctc gttcccctct 120
ttgctaaaac atcaagagct gtaactacgt cactaatcaa aggtctggtg tcagcttcct 180
tctgaatata cattgctgca actgctatgg cttgggtgtag accctatgtt gggtagttcc 240

ctttcatcaa tggatcagcc attgatgaaa atttccttct gtctctgaat acgggttggtg 300
 ccttataaaa aaaaacatta tgaatgtcaa ttgctgaaca tttgtgcata ttattggtct 360
 tagct 365

<210> 28862
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28862

tatttttagta agtttcaagt ttgtggttaa gcttattatt tttgatataa gttctaattct 60
 gatatgctta ttaaataaggc gcctaattaa actatttacc caaatgcacc atacatgtaa 120
 ttgcacactg atattattttg cctatatttg atgttttagtg ttttcttaaa tatttttgtt 180
 ccttggtgac ctttaaacad tgatatgcag agtaaaaatt gcatttttgt ttaatgtttc 240
 aacaaaactc tgtttttttt gggggtgggg tgggggttgg taaaatatat tgaagctcat 300
 ttttaacatg gttccttattc attgaaccct gttaaacaag ctaagtgtag atgttgacaa 360
 tttgttntga ttatatcang aagggtcatga ggaagctcac gaagagttgc ctaaaaaagt 420
 taaaac 426

<210> 28863
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28863

aacctcattg tctctcacag tcttttagatt gggattcttc caatccttgn gtcoggactc 60
 tcagecactt atgatagccg ccgatgatcc cattactgct tcccctaagc tctctgtcct 120
 ttcttcacgc cgcattccat gccttgcgaa ctcttggag taccctcgcg ttgtgggtcac 180
 tgaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcatgggac 240
 atccttcgca tgaagataga atcctgattc ttccttcctt ctacgcaggg aaccaattaa 300
 cagacgcccc tccatgctag ccaagagttg gtcccaattc gcctttcctt tttcgacgca 360
 tgagcgggtga ccttgtaacg gatagacgtg cctaccttct tggag 405

<210> 28864
 <211> 112
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28864

tcanaaggag ccataccaat actggccttg tagctattgt tgtagtaaa ctcaatcaat 60
 ggcaaacaat ccaccagct acctgttgc tctataatac acgcccgaag ta 112

<210> 28865
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 28865

cttctactta tgtggcaggg cgggtttcct tcactttctc tctttcacgc gagctctttt 60
 cactgtcctt ccttcctgag gtgcttcttt tcatgtccgc ttgagtgggc ttatagccta 120
 aaccatattt cccacgattt ccttgcgctt ttatcaagct agttatgccg ccattgtctc 180
 tgcctaaacc catcccgggt tcataaccgt tccccaacat aactcggggc atcattaccg 240
 ccgcacgga cagacaaagt tgcccaaaga cggagtccac ggaggaaatg ctaaccacct 300
 caaaagactg gaaagcggct tctaacgatt cttctgcggc ttccacataa tgcattggagg 360
 atgggcagct taccaagata tcttcctcgc ctgatacgat gaccaagtgc acctccacta 420
 cgaatttc 428

<210> 28866
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 28866

tcttacgtag cctctcttgg cgtcagaat atcccattta cttgtgcctg ttattctaac 60
 tatattgaat gctgtagttc ccgattgtac atccgtaaaa ttgttgctcg atgcctgtt 120
 tgctaaaaca tcaagagccg taactacgtc actgatgaaa ggctgggtat gaactaactc 180
 ctgaatactc attgctgctt ctgctatggc ttggcgaata acctttgctg agtatctgcc 240
 ttctcatcaa cggatcaacc tttgatgaaa at 272

<210> 28867
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28867

aacgcgcatt tgatgcgtcg atgnacgncc gncatagaat acacacgcac gcaaggagcc 60
 atgccaacac aggacacgna ccgatttctt ttagaaaacc caaccgaggg ccagcaatac 120
 atcctagcta ccaagggccca ccaaacacac gcccgaaagta gatgcgcacg aggagaagag 180
 ccgtaacgga cgaggcagca gatccatgga aataagcaga ccttcgccac atagaagacc 240
 cctacgaatc acggtaagct gaccacaaag gcgcatgcgc accagaacga atgccctgta 300
 caagactaaa taaggatcac tgccacgaca ctactaacac gatatacgac tacacaaacc 360
 ttaacatgcc ataccttcaa tgaaaagaag aacaaatgag cacaaatgga gagtcaaaca 420
 gccatgaccc acaccgcaac atgcccacga ctcagcaagg atgaacacaa gacgcacacc 480
 gcg 483

<210> 28868
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 28868

tgtactagtc atatatatgt tacaaaacaa cgtttgttat tttgaatcga ttattgcaga 60
 tacagaaata cttaaacaaa cctgccattt aggggttttg cggctttttg caaattccgc 120
 ccatgtttct ggatcaaggc cataacttgac ttaggatca gatatttgct gaccttcatt 180
 gtcagcaaag acaaattttg aagtcaatga agacttaa at tgctccatc ttgctgcaac 240
 tgttgacatc accttttttt ttgcattttc accttcaggg atatcaaatt tgcgctacac 300
 aacaaaagga gttatgtaac agtatgtaaa tgaatccttt aaaagtaact taacaacaaa 360
 atcatgaata catgtgtgaa ttacttacca aaatatcttt ccatattaag ctcttttagat 420
 c 421

<210> 28869

<211> 419
 <212> DNA
 <213> Glycine max

<400> 28869

tccgaaagtg tatagtaaaa ctatgaagac attcttattt gcattgcaat atttttcttg 60
 gtttaatttt tatattcacg ggataataac aagaaacata tagaagggtt aaaataattt 120
 tctgaacgta aactgagcta ggcagctcta cacggctggt tctctacttg ctgctcgtc 180
 taagcttctg aggagtgaac caatattttg acatagtaat atgaatatga catgggttact 240
 ttccaaagaa agtggggcac aagggaacaat gggtcaaaga atatcacaag atcctgctat 300
 gttaatacaa attcatttca atcattaaca cccggacaga attactagaa acagtctaca 360
 ttgtaactga aaaaagaaaa aaccactggt gcggagtcaa caaaatatgg agtctcaat 419

<210> 28870
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28870

tatatgcatg tncgtttttg ttttaagccg caccaatttt gtatatgaac atgcnatgtn 60
 ggagagccat acggcacaag gcattttcag ttgcgtatat atatcatgcg atgtgttatt 120
 tcgatattct gcgttctagc attctggcct taaaatgcaa aaaaattact agtgctttca 180
 taattaaatt aatagaagat ttttaaatga attacaataa agttattcgc taaaattagg 240
 tcttaattcc atgtatggcg ataggtcatt atagtgtgta cttacatgcg ctttgattat 300
 tatattaact tgatcatata tgaatgggta tggataagag tagaatgaaa cgaataacac 360
 gttttcttat tactctaaact ctaacttgac ttttctcaat 400

<210> 28871
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 28871

aactataaaa ctcagcttgt tgctggcgga ttctgtaat tacgtaatgt tggtcggact 60
 ctggtacatt atgaagggat tcttactcgc tattggtgct tcttggttct atgagctgct 120

gaagattatt caactaaatt aagtgccttat taaataagcg tttgtataag atatgtttct 180
atgattgaag atgaaatata gttcaattgt tttcatagct gaaaactgta tttacaaaag 240
gagtctattg aaataagctg aaaacatctt atggatatat cgcacatgat ttttattagg 300
tctcccaaac aagtgggtcac atcataagat aagtcccaat aagctgtaaa taacttattt 360
gaagaacccc ttattggatt tttgtgttac tgtatttaag aatttggctt tgcgcgagga 420
tgtgc 425

<210> 28872
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28872

gagttgccat cctcattnta caggccaacc agcaatccta tgatgcctta actctttaat 60
ggtgaattag cacaataaag gacttcagca tactaaatgc tagtagtacc agttgcaaca 120
atcacaattt gcataaacat atatgaaaaa actcaagtac attcttacac ctcaaaaagg 180
caagaaggaa aagaacgcat atcaaagaaa tcttaagtta tggtaaattg cttagagaat 240
atcctttata atgcatgaaa ctaaaaccag taattacagg aagagaaaag aacatactga 300
tccataccac agagcatgat agacagttcc acaagaacct gcaatttaga ataggaaaca 360
agttacaagg cataaaatgc ataacaacca ctgctaacaa gatatttggg tttaaaagca 420
taggtttagt aaattat 437

<210> 28873
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28873

agaatcggac ctcaagtgtga aaagttatga ccacncttt ttctcgagag cgttcgttga 60
tcaatgtcga gcatctcgac atgttatgog ctcaaactcg acatccgtgt gaagaggat 120
gaccatttga gtttctcgag agcttccatg gatcaatttc gagcatatgg tcctattatg 180
tgcccgaatc tgaccttcgt gtgagaagtt atgaccattt gaatttctca agagcttgcg 240

ctgtttaatt tcgagcgtct caatatattg taagcgtgaa tcggagctca gtgtgaaaag 300
 ttatgaccat tagaatttct ccaaagctta cttgggttcaa tttcgagcat ctagacatat 360
 tatgtgcacg aatctgtcct tcgagtgaca agttatgacc atttgaattt atcgagagct 420
 tacgctg 427

<210> 28874
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28874

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 agcccctact ttogaggggc agctcccacc ttatgacgac tatcccgggc aagacgatga 120
 ggaatgagat acccatctcg gtccctgtct ccacctcaaa gatctgtccc cccatgaact 180
 accccaacca aacatagtcc gccatatccc gacttcaccc aactcgtaa aagaatctgt 240
 tcccttcgtg gaagataaag gaaagattga ggtgcttgaa gagagggtga gagcagtcga 300
 gggcctcggc aattacccat tctcggtatc agcggactta tgtctcgtac ccaatatcgt 360
 cattcctccc aagttcaaag taccagactn tgataagtac aaagggatga catgttcgaa 420
 atggcatctt 430

<210> 28875
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 28875

atttcacgtg acaacaaaat tgacatgtcc ggttgacta aagtaggtga attgattgaa 60
 aaatttgaat cataggcaga gttgtgtgaa cttatacatt tgcattctgg taagaccact 120
 acagtgagat ggaacaacaa gccaaaaaga agaatggatc gaaacaagga aagaattcgt 180
 tagttggtag gaatgccac ctctttgatg acaagtccga tggtaacgac attgccaat 240
 ccttcaacta acactatgtc taccatagtg cctactggta ctacaactta tgaaataccc 300
 acaattatga ctactttgtt cctctgacaa caactagatt tgggaatata tgatataatg 360

tatcaactat cttgacaact aattgaaata gtcataacta gtccgtggat aaataggtaa 420
 ttaaatat 428

<210> 28876
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28876

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 aaattttgtgg attttgaaaa gaaagcatga aatcgggaca tggatgaacaa taactggggtt 120
 ttgaacctca gcataaggct ttttattaca aaggagaagg aataaaaaaaaa tagcaaaaaa 180
 tggaggagcc tacacgtatg tgcttggtca ttcttttatt atatgacata agattatcca 240
 gttgggagac cttcttgtgt gatttggaaac ttaagtttca accttcgccc ttcgacaacc 300
 atcaagttat tcaaatttgg agtttgtcct ttttagtatt ttaaattaaa atttgatttc 360
 ttttagttcc tcanattcaa taaaagttat gttagttttt cttgtaataa aaaaactggt 420
 acaaaatttg 430

<210> 28877
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28877

gctntgcgga tttggtcttc gccagtgaag ggatcggtgt ttgtccgaaa agagttatat 60
 ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120
 gagaaacca tgctatgact gccattccta tacggccaag tttcccacca aaccaacaa 180
 tgtcattact cagtcaataa caaacctcct ccttaccac caccagttta tccacaaagg 240
 tcatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300
 agcacaacc aaaaaaacac caacaaaaag gaattttgca gcaaaaagcc tgtaggggttc 360
 accccanatt ccgttgcac atgctaaact tgatcccata tccactcaat aattcaatg 419

<210> 28878

<211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28878

tgcttgtgga gcttctatgg aggctggatc tttttgcttt aatgaggtcc tttaatggtg 60
 gttttctacc atggagatgc agtgggaagac aaaggagaag aggtgaaagg aagcgccatc 120
 cactaaggaa taagccatgg aagaaggagc ttcaccacca agataagcct tggataagaa 180
 gcttggaag atgcttcaat ggaggaaaag aaagagggag agaaagagag gggggagcac 240
 gaaattgaag gaataaaaga gagagagaag tggaactttg aagtatgtct cacaagactc 300
 tcattcatca aagttacaac aagtgttaca catgcttcta tntatagact angtagcttc 360
 cttgagaagc tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 420

<210> 28879
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28879

tatgattaaa tacgctaacc tcagcaaata ttgtcttttc ttaggtatgt tctttccttt 60
 ccgtttttca tattgatgat gaataaacat gaatttgata aattgttctt gtttgtgttt 120
 gatggagccc tgcaacactc taatgggtggg gtagatttac ttatgcatag aaattaggaa 180
 aagaatagca ttggtcatga aaacatatct ataacgttta gaaattagaa tttgggtcca 240
 aaacaaaatt gaggactaga agactaataa ttatgccggg ttgttatcga tccttttgtt 300
 tggaaaaagt catgggctaataa aaaggaatca catgggtgatc tanatcaact acagatcata 360
 tatatcatgt atcanaatca tgaaaaatat atgcactgaa tactctcgtt ggctgcagtt 420
 tacaatc 427

<210> 28880
 <211> 399
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 28880

tcaagcttca tgagagagtc atatatcaaa tngagaggtt taatttttagc tatgctaaac 60
tagccaacaa agggagaaag aaggcagact tgaaccccg atattgggtt tgggtgcaca 120
tgacaaatga aaggtttccg gaacaaagga aatcaaagct tctaccatgg ggagatggac 180
catttcaagt gcttgaaaga attaatgaca atgcttaca agttgagctg cccggtgagt 240
ataatgtag ttccaccttc aatgtctctg atttatctct ttttgatgca gatggagaat 300
ccgatttgag gacatatcct tctcaagatg gagagaatga tgaggacatg accaagagcc 360
atggcaagga tccacttgaa ggacttggag gacctatga 399

<210> 28881
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28881

taggcctaatt cttaactctt tttaagagcc atcacttttt tatttagatt tggaccatac 60
catgttntaa ggagttgagt agagtgtgag cggttaaact ctctctccat tctccccctt 120
agttataact aaatacataa aagattgaaa agaaatctta tatggttggt tagaagcttg 180
caaagtattt tgttgaagta cgatgaaaac attaaatatc aacagcattt cgtaatttg 240
aagacattca ggattgtctt aatattctct ttttcaccgc agaaactaaa ttttattacg 300
ttgaagagtg ccagcagtag ccctgcattg ttacggcatt tcaatatatt caatttgtgc 360
aacaaaacat aatgtcattg gtaatatcca tagtattcaa caataaatt tttaaag 417

<210> 28882
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28882

nttactagca tcaacagtat ccttagatta ttatnctca ttagaaactc togtgtctct 60
tgtaaaaata aatccttcta agcttcatgg aagtgcaaaa atggttggct gtggttcagt 120
aaatagctat ctctgtccc tggcacaagg gtggggaagc aaggaggagg gcatggggtt 180
gtactcttgt attatggcaa atgagaaagt ccaggatgaa gcactgtgtt tgtttccttc 240

tgatgctgag aatagtagtg accaatccaa ttactgcata ggttctactc tttattttga 300
 attgcatgga cccattgctc anagcaagga accaattgta gatacagttt cctcctgttt 360
 gagagttata cacataccgg atatgcatth a 391

<210> 28883
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28883

taagaacaga attgcctaaa tcatttccaa atatgtatgt gattacgaag catttcaaga 60
 atcaagccta ggctattgtg caagcaatca atggggcaaa acacaccaaa atattatgat 120
 aatggatggc tcaaattctc acaaaggtaa acttattact ttcaaattga gctttcaaaa 180
 ctatcatgac atgtagagga aaaacaagga tttcaaata caaatgtca agagactttt 240
 attttcagaa caattatcca tttcttgaac atatcctata attcaaagaa aaatatgcaa 300
 agttgtacat gcaaacagaa ttgacctaga atattaaact ataaacccaa caaaactaac 360
 aaatttaaca caagcaaaac taacaaaact agcaaaacca aaaccaaaga acactcccnc 420
 cccccccata c 431

<210> 28884
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 28884

acgacgcgtg aataaggacg gttctactaa atttggtcgt aacaaatgac cggtaggcatt 60
 ttttgtaaata aacagtagac gaaccattca atacgaagac ggttatthtc cgaaccggcg 120
 tcatagattg ggcaagthta aaggtagccc gtgagccaca gccactgaag aagthaagct 180
 tcaaataatgt gaagcttgct ctgatctca tctctcccat tcacctthca ctctgact 240
 ctataactcc acgtctctat caatgctcct ctacggcatg ttctgaatg ccccatthg 300
 gaaaagaggt tctagtgtg ggggcctagg gttagggtth gtgagagatg ttggatgctc 360
 catgcattga tgagtcttat cgcaagctgg tggaagccat tctagcacag tgacgacgcc 420

gttaatgccg

430

<210> 28885
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28885

attaacctag tgtataagac aaggctttgt tcttggtgtc gcaatggtgc atgctcgtaa 60
tattaagcac gcttcattcg tccatccagt agtagggaat tatgcttctc agaaagaatt 120
gacgcataaa gatagccctg tctacaacta tatagtatat gtattgatcc atatcgtaat 180
gaggggaccc atctctatat ataacagccg tggacatata tgttcttgac aagactagat 240
gagaatagta cgtatacgcg ggcggagctg gtaccatcag gtatcgaagc gaaaggccaa 300
gtatgattct ctatcaagga cccagaggat atcactgatg cctcttctaa acgcntgaca 360
tgcgataatg gatctgtaat atctcatacc gactgatgaa cata 404

<210> 28886
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28886

ntntggctaa gtggctattt acaatcaaaa catggccttc atcattctca gattcatgca 60
ttcattccat aaattagaga ttcatgcaaa agtcattacc caatgtcagt cgtttctttc 120
acaattaaga tcacactctc accgggttac gattaacgca ttccttcaca atcaatatga 180
caaaccgact aacattttca gtcataatcc taatttcttg ttctttctct tttaatgact 240
gcatgctttt tcaagacaaa agatctatgc attccacttc actcaattca tacaagtgct 300
tcgttcaatt caatcaaaaa cattgaatat cacatcaaaa gtcaaaccac tgaataacat 360
tcaatcatgc ttttcacaag ctacaaacaa ctataaacat act 403

<210> 28887
<211> 432
<212> DNA
<213> Glycine max

<400> 28887

tgtttcactc acctcttgaa acacatagtc attcatgtgt tcttcgctta ttatttatct 60
tctccattta ttgggtcaata agattttctt tgtttcttct ttcttctcaa acttatatga 120
tctactaatt ctctatttct gagagagttt gtctataaag ttctaggaga agagaaattt 180
ttacccttat acaatacaaaa agtatacaat ttaagattag atcacatgag atgtattctc 240
aatagatttg gctaataaaa tctttcttta tcttttctt ctttattatc tagatttctc 300
taatttgaac ctcacctaatt attttatttt ctgtcaagat atatattaag ataaaacatc 360
acaagattta aatcattcta gaatatcaca aattcgaata taacacacat cttatccaaa 420
ctagatatac at 432

<210> 28888

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28888

tcttcttggt tctctcccca tttgaaacca acatttttct tgagcacttc attgagaggt 60
gctgccaatg tgctaaaatc cttcacaaat cgtctataaa aacttgctaa gccatgtgtc 120
gcaacctacc cttcggcggg agggcgatgc gtgactcgcg ggatgcgtgt tccacgaaag 180
gaatacgcgc ggagtcgcca ctaatgttta tttgaggaaa acgtcggaaa aaccggaaaa 240
gaagcgatct acgaactttt aagtgaaagg ctcgggagtt gtatttacgc gtggggaagg 300
tattagcacc ccacacgtcc gtcacaaggg acggcagcct ttaatcgaat gtgcaaacat 360
gactttgatt tttacgttcc cttttatgtc cttatatect ttataccctn tntatanttt 420
tttct 425

<210> 28889

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28889

actcagctgt cattggcgag caaataaaat ntttttcatg atagcatgga tagtattaag 60

aaagttgcaa ttgattcaga cagatgttgt agggcctcaa agaacacctt cattgaaagg 120
caatttgtat tacactatat ttattgatga ctttttcttt aagttcaaatt caaaggtggc 180
tgaaatTTTT tggaTgttca aagtcaagta gagaatgaaa gtggTctcaa aattcaaatt 240
ttgaggtctg acaatggcat caagtacaca tctgcaaaat ttaatcaatt ttgggaggat 300
tctgacatcc aacatcaact tactaatcct tataccccac aacaagatgg ggTtagtgag 360
aggagaaata aatatatctt ggagatgatg agatgcatgt tgtatg 406

<210> 28890
<211> 312
<212> DNA
<213> Glycine max

<400> 28890

ttttatttca aaagattctc atgaaacttg tgacattggT catttagctt aacacaaacg 60
aaagccctat tctcttaatt cgagaagaag ccctaaaatt ttTgagttga tgcctatgga 120
tatttgggga ccatttttta aatcatcaat tctgTgacat agatatattg taactatact 180
tgatgatgat agtacatata ctcgggcggc tttattaaaa tcaaaaagtg aagtgaaaac 240
acatgttcaa aactttatta atctgatcga aaatcaatcc gaagcaaaaa ttaaatgcat 300
tcgattcgat aa 312

<210> 28891
<211> 418
<212> DNA
<213> Glycine max

<400> 28891

tgTccttctc ctctgcaatg cctccacct tgtttactct ttcctttatc tctatctgta 60
aatccttgta gcatctgaac aattcatcac aatccaacct ggtgcacaac aacttgcca 120
acacaccacc aactttggaa gacagttgac agttcaacct tacgacctca acaaaggcga 180
tggtggTgtt agccacctta tgacactcca ctctccaaac agtgtgagca gtaaccctcc 240
atttggcgat ctctgactcc atggacacca ccttgTgcaa accctcttgg tgctactgtc 300
cgTtctctc tagaatttcc aaacttcttt ggagaaagac ttTgtagag tccgtagcat 360
tttgtaccct aaccaaccga atcatatTTT ttgtcaaagg ttgacacaaa gccatatg 418

<210> 28892
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 28892

tgtatataat tatcatttgt tttggcaaat aacttctttg tcgtaacatt cttaacatta 60
 gatagtgaat atatatcgac aagtgaatag aatgaaatct tattttaatt tgttatttaa 120
 ttttaccttt ttcaataatt aaagcttata atcttctaac tcccgttttg tctttaaaat 180
 gtatctttta aatttatgag ttttaataacc attttagtat ataaaaattt acatgggtcaa 240
 ttatcaatca attaaaagtc ataaaatcat tcttattata atttttaaaa taattatatt 300
 ataaaaataa taaatttatc atatgagatg ctttgtcatt gatttgtgat tgaataatta 360
 ggtgtgttat atttattcta acttatatat ggaatgctta tgcaagtata tttcatttaa 420
 aaatg 425

<210> 28893
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28893

tggtgactct ntgagcatat ttttatcgta gaattttttg caatttattg gttctttatt 60
 tcgacagaaa ctgcgtaatt aagctagaca atgaaagaca cgtgggaatg ggagatgtag 120
 tgatgcgatg cctgcacgac tagcttgcaa acttgaagct gaatcaccat cacgcatcaa 180
 aagttgaatc catcagccac accaagggtcc ttttccatag agtagaaata aatgaaatga 240
 aagtgaatta agatgagata gtcttaaatt aaagtaaaat gtagaagtgt aaatttcatt 300
 gtagtttatt atttatttct ctctntttat gtttttttca actcaaacaa acgaacacta 360
 aatcagtaaa aatattaata tatatatatn tttttataa ttttaattaat ata 413

<210> 28894
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28894

ntagaatggt aaactcatct tgaatgagag gatgtttttg tgcgtttttc aaaagcttta 60
ggccctttttt ttttttaatt ttatcacgga tgaaaacctg ngcatatata tatatatata 120
tatatatata tatatatata tatatatata tatatatata ttttcaggc ttccctttta 180
cgcttttgat accgtatacc tcgttttaaaa taaaataaaa tactgtgcat ctttcttttc 240
tattgaacaa aacacaatag aagcaagtca gaagcactcg aatgactctc ataccaaagt 300
taaattaaat aggtattgat ctacacatac acatcaattt aaataacata tttagatcac 360
acaacggaaa ttaaataatta cgagcgtacc tccagccatt gtacatcgaa cgcgaan 417

<210> 28895

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28895

gtgatccttg tttcactaat atcaaaatct ggctanccat ttaagtgtc ataaattcca 60
taagggtaga agcctgatga accacggagc attatgaatc tgaaattgac catccacaaa 120
tgttaatect actgctatca gtaaaaaaag ctactagtgc tttaaatatt attctttgag 180
caataatgga actgataaga ttgcaagtag aacttgtaat gaaaatgggg gggggggggg 240
tgacaactag tncattcctg atcatgtgtg acatataaaa ccaactcctaa tttgttagca 300
gactctttta cgatgggtat atttctactc acgtgagact tcaaaccac tcccagctta 360
atcgcacact caaatcaggg aatgcattag aatatatatc tgttgagaaa ttattagact 420
tgatggaacc g 431

<210> 28896

<211> 403

<212> DNA

<213> Glycine max

<400> 28896

gtggaattct tggaaattgg aatcatgata ttagtaagca gtccaatgga ccttttagcta 60
aatgctcaat acttgggttg ttcatggaag gaacatcaca gggtcaccca caaatatgta 120
tagaatatgc acttgattcg taatttcaag tatggctatt atcatgtttt tacagttttg 180

aaaatgttat cattttgatg tcaaagtgtg aaagtgtttt taaaaacatt ttcaagactt 240
 ttacactttg caccaacatc atctaacttg tatccattca actttttgtc aaaatcgaga 300
 agaaataaaa ctaacaaaaa tcaagaggaa tggagtttat ttttcccatt tcagatccaa 360
 tgcagaatat ttgtatgtaa aattttttct tgaacccaat agc 403

<210> 28897
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 28897
 ttacctatac ttaatagaac atacttatac ctctacataa taacctgtgt tgggctgagt 60
 gtgatacact ttacacgtgt tttatacgca ggagctagtt gtattcaccg actaacaact 120
 gccccaaatt tatagttttg ctagtcttca tggccctata gaccagctcg ctagtcttca 180
 cgtgaccctg acatgcaacg actatgtaca aaggagcatg caacaaaagt tactgattgc 240
 atgataggag aatggagtaa agatccctaa tcacttgtct tgcacaacgt atgcaatcat 300
 ccacagagaa gaatagtatg cactctgaac gattagatgg agctgatca 349

<210> 28898
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 28898
 ctcagcttga ggatatgggg acccatcaca tgtggactat gtgtttgtcg ggcgatggtg 60
 cacaacaagt ttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gtcacgtac tcccacgtag cccatatacct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacaacacaa 240
 gctatcacag ccaagcaaaa cagaacaaag acagaaaact ctgctcaaca catcaaccaa 300
 aatcacagct tttctcactt aaagaccaca gtaacaattc cttcgatcca attcattaac 360
 cgttggatcg actccaaaat tttactggga gtctatagtg cataagccta catttggaac 420
 gttgggatct actggcaaa 439

<210> 28899
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 28899

actcagcttc taattttggg attgatgctc ttaaactggt ggtatatatt aaactgagtt 60
 ccaaccaagg ctgtctcaaa gacacctttt gagttattca agggttggaa accaagtttg 120
 cgacatatac gcgtataggg atgcccgtct gaagtaagaa ttataatcc acaagagaag 180
 aaactagacc ctaggactat tactgggtat ttcattggat atcctaaaag gtttaaaggg 240
 tataggttct attgtccatc ccacaacact aggattgtgg aatcaaggaa tgcaaagttt 300
 catgaaaatg acttgatcag tgggagtgat caatttcaga acatttcttc tgaaagggat 360
 cactatgaag ctgaaccttc tgggacaagt aataggttgg tagtcattct caccctcaa 420
 gttaaaatg 429

<210> 28900
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28900

ntgtatctta ttcttgcata ttatctataa attctttgaa ctgtaacatt ttaatttttc 60
 gtaaataaat ttaaaaagct ttttagtcaa aaataaataa ataaataaat atagaacaaa 120
 taatagactg agtaccctag gtataaatag ttatgttaag tcagctgtct catttttagt 180
 ctcatcttcg tttttcccat tctcctctca aaatcctttc tttttcccgat agcccaccaa 240
 acctgtctca gaaaaacgac gatctcgaac ccgttcaccg ttggatcgtc gtgaaatttt 300
 attatcatgt tcgcaaccca attccgaaca ttctcaccgt tgggaatttc aaaatcatat 360
 ctgagcttat aggagaaccc ttgcgattgt agcattttta tttcccgag aaaccaaaaa 420
 ctgtctc 427

<210> 28901
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 28901

gacctataaa actcagctgt atcatcacaca catctgaatc gatatcggtt agtttttcag 60
anaacattct caacagtcac atctttttgt gtgggtcttg aatggctatc ataggcctat 120
atatatgtga cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatcc 180
tcttataaag agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt 240
caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct 300
tcttttcttc ttcttcattt tgaaaaggga ttaagagacc gaggggtctct tgttgtgaaa 360
taattctaaa cacaaaggaa ggggtgtcct tgtgtgttta gaacttgga aaggaatgta 420
taagatagtg gaactct 437

<210> 28902
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28902

ttccattctc ttggaagttc atcattggat tttcttctt ctggaggatc tttattggtt 60
cctttatcat ttcttttga atcttgttca tgaatattca tatgttctaa agaatctgca 120
atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180
atggattcct cgatattcat agttctttta ttatatatcc tatatgcttt gctttgtaat 240
gaatatccaa gaaaaatacc ttcatcatat ttgcatcga attttcttag attatctcta 300
ccattattaa gcacaaagca ttgcaacca aaaacatgta gatgagaaat attagggttt 360
ctaccattaa ataactcata tgggggtntc tttaanataa gtcttattaa ggccctattc 420
atgatct 427

<210> 28903
<211> 437
<212> DNA
<213> Glycine max

<400> 28903

ctcagcttct aaggagggtga gcttagttat gagaggggtgt gtttatctaa gctctagctt 60

ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctaaagaaa gcttctcaag 120
gaagctacct agtctataaa tagaagcatg tgtaacactt gttgtaactt tgatgaatga 180
gagtcttggtg agacacaact caaagttcaa cttctctccc ttttcttcc ttcaatttcg 240
tgctcccccc tctctcttcc tctccctctt tcttttctc cattgaagca tctctccaa 300
gcttcttctc caaggctcat cttggtggtg aagctcttc ttccaaggct tattccctag 360
tggatggcgc ctctctctc ctcttctctt ttgtcttcg cttcatctcc atggtgaaaa 420
atcaccatca aaggacc 437

<210> 28904
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28904

tcaacaacat tctttcttct cttcaagtct tcaattttaa tcagtgatct tcacctttct 60
ctctgcctca tctcccttta attcaggttg gtttaactta attcttctga attattgctc 120
agttagtaac agaattaagg tgcaacaaga gtaggggaga taattttcat gccgctccaa 180
acattgataa tttctttgtg acattcattg aggtgctatg tgatagacc cctgggtcatg 240
attgggaaac tagatatgct tgctgagcaa acaaaacatt ggagatgtta agacaaagta 300
catgggagtt cttagagtat gaatgctctt gcctcttgct caaggaggaa aatgctttcg 360
aggcanagaa tgcatttcaa caagagtaaa taacttttct ctcttgagaa atattt 416

<210> 28905
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28905

tgtaggatta tggggtattc atcacatgtg gtactatttg gcagtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaagcgcgca taaaccacc atccctgtt gccacctcc 120
aactgagctc acgtactccc acgtagccca taacctcggt tctctcaaca ccgggtcccc 180
atcaatctc ccaagcttcc ccaacatcaa agtaaatcaa cattcaaaca gcacaaatta 240

ccacagccaa gataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg atccaattcg ttaaccgttg 360
gatcgactcc aaaattntac tggaagtcta tagtacataa gctacat 408

<210> 28906
<211> 423
<212> DNA
<213> Glycine max

<400> 28906

aagctaccta gtctataaat agaaacatgg gttactctcg ctggaacttt gatgaaggag 60
agtctcgtga gacatacttc acagccccac ttctctccct actttattgc ttcaattccg 120
tgctcccccc tctctctttc tctgctcttt tcttttcctc cattgaagca tccttccaag 180
cttcttatcc aaggctcacc ttgggtggga agctccttct tccatggctt attcctact 240
ggatggcgcc tcctctcacc tcttctcctt tgtcttccgc tgcattcca tgggtgaaaa 300
tcaccattaa gggacctcat tgaagctcag agatccatcc tccatagaag cccacaagc 360
aagcttgcac catcccgctt cagattctat acaacgatta atacagaacg ttgcattaa 420
tcg 423

<210> 28907
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28907

cttgtagtgg aattcttggg aatttgaatc atgatattag ttgcagtc aatggacctt 60
tagctaaatg ctcaatactt gggttgttca tggaaggaac atcacaggtt caccacaaa 120
tatgtataga atatgcactt gattcgtaat ttcaagtatg gctattatca tgtttttaca 180
gttttgaaaa tgttatcatt ttgatgtcaa agtgtaaaag tgttttttaa aacattttca 240
agacttttac actttgcacc aacatcatct aacttgatc cattcaactt ttgtcaaaa 300
tcgagaagaa ataaaactaa caaaaatcaa gaggaatgga gtttattttt cccatttcaa 360
atccaatgca gaaaatttgt atgtaaaatt ttttcttgaa cccaatagca tntaatttgg 420
ttaatatattc taca 434

<210> 28908
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 28908

tactacgctt gctatattata gagaaaacat ttataattgc ctatattgat taaatctata 60
 acgttatcga ttatttcaat gaagtaattg attatattat ttaagtaatc gattacagtg 120
 ttcatccaac atctagaaaa cacctcaaga ataatgtaat tgattagatg acctatgtaa 180
 tcaattaaag tgttcttggt cacctctgaa caacttaaat gagagagaag taatcaatta 240
 atccacttgg taattgatta aagcagagac tccaaaaaaa aatcaatca ttgtgtcaaa 300
 caatagtgtc gcaatctacc cttcggcggg cgtgcgaata ggccaaaata gatgggccga 360
 agcatttgtc tccaagggag ataatgagcg gagtgccac caacgtttat tcgaggacaa 420
 agttagtgtc gcaacctac 439

<210> 28909
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 28909

gcgagtttga cacgctcagc ccaaggcatt tgatattttc atattcttgt tgcaatgact 60
 tctctgattt agaatagggc ttaacatgcc tgtctcgcta agcacattaa ggttacagtg 120
 gtccaacctg gtgagctctt actggcggtc atcttgttta atgagtcacg ctaagcgagc 180
 catgctcgct aagcgcaatg agctctctat tagagaataa cgcttaacga gccatgctct 240
 cttatccatt gaggtatttc aactgagcga aggtgactgc cttagaccaa gtgtttatca 300
 ttagttgaca cgctaagcgc cttctgatgt tttctgaacg cgcgcaaagc 350

<210> 28910
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 28910

tataaaacta agctattatt ggaacattac acccaaattt aatttgattc ttactatata 60

ttaataacaa aacaatacag ttttttttta aaaacaaaac gtaacttttt gagtgacatg 120
tcttcaacga caaaatacac aaaaattaaa aacttgaata ataaaattta caaaataata 180
aaagtttctt aataaaatat ggaattaaac cttccatcaa tttcttagaa actagagtca 240
tatagttgtc atggatgaca ttcagagtcc tataactaat attaataata taagaaacta 300
agaaaataaa ctttatatat gtaataataa caatagttta aattaataat taacctagta 360
agcacaagtg aaaggatcga agacaaagtg attggcgcca tctcggggta gcgtagtaca 420
gctcttatgg aattatct 438

<210> 28911
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28911

catcangcat catcaagagg aagggagaag aaacaccgct aangcaggaa agnnccgcca 60
gaaggcaaaa ctctctatct taatcaatta caaccttatt gtaatcgatt acacaagttg 120
ttcgaagctt gtagagttat gtctcgtatt gtgtcaatcg attatagcct tctcgtaatc 180
aattacacag ttgtttttaa gataatgatt gatttattta ggagtctcta ctttaattga 240
ttaccatgtg ttataatcga ttacttctct ttctataagt gtaccaaag tgaacaacaa 300
tactcttatt gattacattg ttcttg 326

<210> 28912
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28912

aactcaagct tgtaggctac atttacaacc atacattggc tnngatcact atgaggaaat 60
tctcacaaaa aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa 120
ctttgcaaag attgcataag caaaaggcca atcttataag gatgtttact tcagatgaat 180
ggttgaagtc taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta 240
tgccatcatt ttggaatgat gttgtctatg ctttaaaggc tatagggcct cttgtaagt 300

tggtgaggtt ggtggataat gaacaaaaac ctgcaatggg ttccatttat gaagcaatgg 360
atagggccaa agaagcaatt catagagctg tcaataacaa tg 402

<210> 28913
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28913

gtgttatgtg tcgattntag ctatggtttc atttggttat ttccaaactc atttaaagag 60
gacttgcaaa gtaaataact ggttgaaact ttatttttca atggttaacc gaggttacag 120
cataaacgat tgattgaatt ttatttttaa attcattaag gtagattacg acacaattaa 180
tcgggtgaaa ctgcgtttac aatgataaaa gggagattac ggtacaatta atcagtcaaa 240
acttgcttta caatgaaata aaattactga tggaagaaga atgaagatga agatgtgaaa 300
agcaagagtg gaccactaag ggtgcataaa atgaattcaa aacttcaaaa ataaaaacta 360
accggtcgat caacgaagaa cgggtgaagaa cggacgaaga acgatcatgg aaacggttatt 420
gaaacgttac cg 432

<210> 28914
<211> 427
<212> DNA
<213> Glycine max

<400> 28914

tttgcggtga tgattatgat attcaataca aatttgtttc ttcaaagtgc atttttgatg 60
ccctctagag acttgatcat gtaatgagag gtgaatgttt catcctgtcc attcctcact 120
tcatttttct caaagaattg aaacgtgcct tgcattccag tccaattttc aaatcataat 180
ggatgtcact tcagcaggat ttgactagct acccaaattt ctagattaaa gatggcttta 240
ttttcttcaa gggagctctt tgggtgaacc cgcacaacc ttcatctcg gccttactta 300
caaaatttta ctatactctc attggtgacc atttgggcat caaaaagaac cttcatcgtc 360
tttagtcaaa ttcttcttgg aacaccatga cctatgatgt taaagaattc atctgacact 420
ctaacac 427

<210> 28915
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 28915

ttacgatttc aaactccaca aataagagat gctttattat aattaggtga atttaatgat 60
 ggtcttataaa taaaaagcga agcggattgt ttagcaactt atgaacttga aaattttgag 120
 tttttattaa gtatgactat ttggtatgac atattatttg ctgtaaactc cattagtaaa 180
 aagttacaat caaaagatat gagtatggat gccactatag aacaattaaa aggtcttatt 240
 ttatttttatt ttgtaaaaat atagagaagg tgaatttgaa aatactataa tttatgccat 300
 agaaattggt aatgaaatgg agatagaacc taagtttcat gaaaaaacat gtagtttgta 360
 gaaaaaaaaac aatatgatag aaatattgat aatgaagttg aaaatcgcct aaagaat 417

<210> 28916
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28916

tgacactatg aaactcagct tatataagta attgttatgt ntcttaaatt gtttttgtat 60
 gttttgttttt ggtaagctta cccttgtgtg tggcacatga gggtgtgaca gtgatgatct 120
 taaactttgt atttgtgaga gtagctagtt tggaggttga tcatttccat ggagacatca 180
 tggatgggca agcttgata tgaaaatgca atccttcttg tgttgctctt cgttactttt 240
 atttatattg ctgattgact tagattttag gtagtttatc tttacaaagt tgtttatgct 300
 tatatgtagg ttttgaggaa atttgagtta ttatgggtga gtgcgtgtgt gtctatatat 360
 atatatcatg tcatgtttta atttggagct gtgcatttta gcctttggga c 411

<210> 28917
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28917

tctaaattag tgtacctttc tattcgcagc tccggccttg ctatcctgaa agaagtgtat 60
 caacagcttt tcattcttag agtgggcgcc catcttacgg cagtacattt tgagatgggt 120
 tttgggacaa gtcgtccctt tatacttgtc gaagtccggc actttgaact tcgggggaat 180
 aacaacatcg ggtactaagc aaagatccgt catgtctgca aacggatagt ccccaaattc 240
 ttccacagcc ctcaatcttt cctcaaggag atcgagcttc ctcttttctt cagatgccgg 300
 gggcggccct tccatggaca aaactattgg cgaagctgcg atgttgggtt gaggcaacgt 360
 gcctggcgcc ggcccttcgg ggatcggngg atagaactcg acatcccttc gagcata 417

<210> 28918
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28918

gcacgtatcg gtcaagtgtg tggaccacgt tgtattcatt tgctcatcga taatgggtcc 60
 agttttaaacy tgatgccccaa gagcactttg gagaaattac cattcaatgc ttcccaccta 120
 aagccaagtt ccatgggtgt tcgtgccttc gaaggcaccg ggcgagaggt taagggagag 180
 atcgacctcc ctgtacagat agaccctcac acctgtcaag ttaccttcca aataatggat 240
 attaaccccc cttacagctg cctgttgggg cgcccggtga tccactcggg gggagttggt 300
 ccctctacac tccaccaaaa gttgaaattc gtagtggaag ggcactctgt catcgatatca 360
 ngcgaggaag acatcttggg aagctgcccc tcctctatgc cttatgtgga ggccgcagag 420
 gagtc 425

<210> 28919
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28919

tattcaatta tcaataaaaa tcctataaaa aaacttgtga atgngccac aaagacaatg 60
 tgataagcaa ttatcactca actaatcact aatcatgcaa tttaattaaa acacattctc 120
 ttatttaaata aaataactcc aaattatatc acaaaatcat ataacttttg agttgcaatt 180

tttggggtgt tacgacctag gtctctagat tcttgatggt catacccgag taggtattcg 240
atcaacatac atacatgtac ctaagtcccta ataagagatt taatagggtta atgtagattc 300
ccctaagatg tgaaaaagat gatggcactc ataaacaaag agggaggggg gggggggtga 360
attcctataa aanattaata tggaattaaa tt 392

<210> 28920
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28920

cggctgatta aaaaacacat aactaggagt ggaaatatat taaaagttcg attatatttg 60
ttgttgacaa atagagaata gaggatagta cacactaata ttacaataat aggaaaatgg 120
aataattcat gtaccaaata aatgataact catatttgat gtgaaaaata tgttacccaa 180
actgtcgagc ttgtaaatca acatatgata ttttaactta atcaagtga ttttaagtta 240
atataattgt gttaaatatt ttgataaaga attttgatag ttataatagt tataatgtga 300
tttttatata aaaataataa aaatcattag tcaatctggg taaagaaaga agacaagaca 360
tagaggttac aagtttaaat tctccaaaac gaatatttca nacaaaactt ataataaatt 420
aacat 425

<210> 28921
<211> 385
<212> DNA
<213> Glycine max
<400> 28921

acatgaaaat tgaggaacca aaccaaattc atatgggaga ggcgtgagag ctaacgaagt 60
ttctctgcta cactttgaga tggaaattca attgcagcat ccgaagaagc acttgagagc 120
gagcacatca caaggaggcc aagggagaag caacaaccac atgtcccaa gcaagtatgt 180
tggggtgagg caaagagcat cagggaaatg ggttgctgag atcaaagaca caacacaaaa 240
gataagaatg tggcttgcca catatgagac agcagaggaa gcagcaaggg cttatgatga 300
agctgcatgc ctcttcctg gatccaacac tcgcaccaac ttcacacac gtgtgttcct 360
tgattcccct ctgcttcgc ggatt 385

<210> 28922
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28922

tcttttanac tacacaaatt taattcctaa aggacttttt cttgacaaac ctatgaatgt 60
 gcatatttat taatataatt caatcatttc atgcatgctt tcagttgtgt gtttagatca 120
 atgttcccat ttaatagtct ttaaacttgc aaattttgta tcttgtctgt aggggtttgg 180
 atcccctagc cactctcttc ttttactaa gtaatatgcc ttcaaattta tcagtgagat 240
 cctaaaccat attcaatctg taatagttta atgtgtgtat atatgtgtgc aactctttta 300
 ttactacctc tttgtttttg cctcttcacc tttcaaccca tccatctaata gttgcatgta 360
 ctctgcccta aattggatta tgcaatatga tatttatcta tgggtggatat tgatctggag 420
 tctcttacct at 432

<210> 28923
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 28923

actcagctgc acatatgcat aaatatgaaa ttggggattt ttgcactact aagtgatgct 60
 aagggtgtgta gaataaacct ttgtagtctg ataccatttg atagctcgat accatttgaa 120
 aatcacaagt ttgccatcat gcttagcatc atgagtagct agacatcaaa aatactagaa 180
 accccgtgag atcaacatta taagcaagggt tctaattttt catgataaac acaagtctag 240
 ctatcatcct atgcatgcta gttatcatat catcattcaa gttctataac tagcatataa 300
 cacacaagca tgcataattaa atataaaact tatgcaatgc aagcaagcac atgaatatgc 360
 acatatcaaa tataacaaaa caatgttcat gagcttgctc tccctacttg tgtgcttctt 420
 ttgtccaaga att 433

<210> 28924
 <211> 429
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28924

tcccttgtga tgggatcaaa ccttgcaatt gatacttgtg tttctcctgt gcgaggtgga 60
caaattttgt ctttttacct atctgtatca tttcatttcc ctttctcttg gctcaaattgt 120
gtgtcattgt cctgaattta tatatttatt tactagtcag acgctcagtt tagttacttt 180
ctttggtcaa gaggctaagc cctgtttaaa atgcaactct agtttagatc aggccaacaa 240
tgactaaagc taaatccaat aaatctcctt aacccttcaa agtattcatt ttgatccaca 300
aattaaaatt taaaattact gaacacaaaag tcccgaacag taactataaa agaattatcc 360
ctataaaaat attattttgt gaattattat taattntttg gtataatcaa aatgtataat 420
tccattccc 429

<210> 28925

<211> 353

<212> DNA

<213> Glycine max

<400> 28925

aattgaggaa cccaacaaaa tctatatgtg tgagttgcga gaactaaggg aggttctctg 60
ctacactttg agatggaaat tcaattcccg cattcaaaga aacacttggg agccagcaca 120
tcaaaaggaa ggtaaggagg aaacaacaac caccaaacca aaagccagta tggtgggggtg 180
aggcaaaaaa catcaggga atgggttgct gagatcaaag acacaacaca aaagataaga 240
atgtggcttg gcacatatga gacagcagag gaagcagcca gggcttatga tgaaactgca 300
tgctccttc gtggatccaa cactcgcacc aacttcatca cacgtgtgtc cct 353

<210> 28926

<211> 426

<212> DNA

<213> Glycine max

<400> 28926

aggaatttgg acaaagacgc tagtatcatc gttcttttgt caaggtagc ttatgaactt 60
ctccaacgtt gataggacag tgcatttcta gtatcatcgt acaattgtca aggttagctt 120
caattccccg gtgggtgatc atgaaaccca agaattttct gcctctaacc ccaaagggtgc 180

atttttcaag attgaggcgc atgttatact tgagaatctc tttgaacacc tctgccaaat 240
 ttgccacatg tttggccatg ctatgagact tgacgaccat gtcattcaca tagacctcga 300
 cattttgtca tatctgttgt ttgaagaccc agtccataag cctttgttat atggctccta 360
 cattctggaa gtcggggcga ccatccataa gcttttcgat gatgggaaag ggatatgcat 420
 ccttgg 426

<210> 28927
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 28927
 tataataaga aagtgaagtc aaaaactttt aactctgtat atttagtttg gaaggttatc 60
 ctgcccattg atagtaagga tcgagccttg ggcaaattg ccccaaattg ggaaggaccg 120
 tttaaaataa ttcagatcta ttcgaatggt gcttatgaat tagaggaatt aaccctcag 180
 aaacgtactt tgagtataaa tggtaaataa ttgaaaaaat ataaaccaac attgctcgaa 240
 gttaaaataa gcatagaata gacagaagta atggaaacat aaaaatggcg ataacagtaa 300
 aattgccacg aaagggcatg tgtcaatatt acatcaagag tagaatcgaa atacagaatt 360
 cgaaataaaa aatcataagt tctactaatg catgactaag tcctcatata gtttcttca 419

<210> 28928
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28928

ntatgatcaa atntttttct ctctttntct ctcaacctgt tttcattctt ctctctctt 60
 tcacttctgt tcttccaatt tcttgcaaaa aattttgtgc cttttccatt ggtgatgac 120
 atggaaggct aaacacttaa tcaatcaaag gatccactcc aagcaaggct aaatttgaat 180
 ttttgtttag tatttctaatt ctttctgaat gttcatcttt ttcttcaatc ctatttttga 240
 ttttcatgag tatgactatg cttatgatta taaatggatt acgctatcga ttcatttcct 300
 aatttcgaaa tttaatcaga gattgtgtgg atgatcttcc aacctaatat gcgatctcta 360

acaattttaag gattgattcg attgaactat ctctaagtga ttagactg

408

<210> 28929

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28929

tatcccaatg ttgagaagtc tatctcaatc aaatctttgc ttacaaaagt taaggttgaa 60
gcttctacac atgtggtaca tgaaaaacta agtgagatga aaatggataa caataatgca 120
gatgataaaa tgccatagtgt tgaacctgtg aaatatgatg aacctctaata ttagataggc 180
ctgaaaatat aaatattgag aaagaaaacta gacaagacag gcaagaaaat gttgtgcaaa 240
catttgaaaa tatagttgga accaagtcta gcaatgggtt ggccaggtaa gtctttgtat 300
tcttatgcca tcttttcgtt gaaaaagtat aatttagttc attagttaaa taatactaca 360
ttatatgtac tagtgtattg taaacatggt ccattgtact ttnaaaatta ttttaata 417

<210> 28930

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28930

agttgtaatc aaccgttagt tagttatagt tagttgttgt tagttactta tatttttagtt 60
ctacaaatac atgcaagtaa agcttctatc aattcagatc aaacaccttt gtgagttcta 120
aatctctttt cctctttgtc aagctntctt caattcgtca ttatgaatca attcaatttc 180
gttaacaatc cattccccgc aacaatatgc ttttgccctc ttatattcct cttccaacca 240
acaacgttta tgactcctaa tttttcaatg ttgttaataa ataaatgcaa attcctaaat 300
gacgtttgca cacctcttcg atcttcgtga tcatcaatac tgattacaga taacgaggaa 360
acacgacaac aactctcctt tgtcttttga agctccttct cattntcttt ntctcaccaa 420
tctcaaatc 429

<210> 28931

<211> 292

<212> DNA

<213> Glycine max

<400> 28931

aagaggaagc atatcaagga gagaatgcaa attttcaatc cccgagaaag aaacgaagaa 60
gaaaggaaat tccccatcta agagtgggag acagaatata gatatgaata gaaagaacac 120
tccaatcaa agaatgggag aaggaaaaaa agaagtataa tataagaaag ctcttggtca 180
aagaaactat aagacatgtg cacaaaggtc ttttgaccgg acgatatctg aacaatacag 240
aattgtcacc acatgaacaa taaaagaacg aaaggaaacc accacctaaa at 292

<210> 28932

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28932

tcaatacaat gattaatgca gactatccac aagaatctct gtattgaatc tcaaacagga 60
atctaagggt cactcatgat aaacattaac tatatgcaca acaatagtca ttaatcacat 120
aaaacaacgt aaaaataatt gtaacataaa ccaagccaag aaaagtacat gtgataatgc 180
tcagtatcaa tagtgtccaa caacgaatac cgtgaacgat gacgcaaaca acaaatgat 240
aagggtctgc gagcttatga tgcaacaaat aagggttcag tatgcttcta tagaaatgac 300
tgacatatag ataagacaaa aacatcaaat tntccaatca taggaacctt tgaactagaa 360
tggaataaac angttaataa gaacgtagcc aagtttctga gtgcagatcc aataacatga 420
ttctgcatga gattatg 437

<210> 28933

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28933

acacaacaac acagaatcta ggtgtccaat actctctttt ttcaatgggt tttctagggt 60
tgaaaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca caccagtcca 120
taacatctat ttagacttgt tcaaactgga tttacaccta aaatctcacc gaatcaaaat 180

ttgactcttc aacacctaaa ttgcccataa aaatggctct ttgttcactt tggtcattta 240
 tttttctctc tagcacagtc caagctttct cataagtcct aaatgacatt tcaagctagt 300
 attaactcac tttaacctcc atttaccaca gaattcagac ttagccttcc aaccctcana 360
 gtctcactct ttttccactc ataacatcac attctcattn tctaacccta ggtagttct 420
 acccttcgtc 430

<210> 28934
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28934

ntgtatttag gttggatggg tgggtaatta acttggtgat atagcaggaa cttattgtta 60
 tgctttgtgt gagaatatat gtatcaaaaa caaatcattt ctgatgttgt atgaatggaa 120
 aacattgatg tttcggaact aaacattggt tgtgtcaaca atgttagaac tgaagacgtg 180
 gaagatgcct aatccctcaa aatgtcacag ttttgatgat aacgaaaata ttaaactttg 240
 atgggtcaatc taatgaggtt tattaagtgt tacaggtttt ttttgcgtct aattatgata 300
 ttggatttgt atttcttacc ttagatgcaa aatctattnt aattggacat atgctcaatg 360
 taaccaaag atggattcag tccaatattt tctcaagtta gacttagaat ataccgttct 420
 ata 423

<210> 28935
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28935

tgaatataat gaaacttget aacttaacan agctaagttt cacttattnc tcttaagggt 60
 ccttcaccca ttaaagttga tagcgctaca catggccgtt actgtgaaaa gagagatagt 120
 gggaactcta aacacttttt gtagcatatc ttcatagaac tacaacttgc cagtgtcgtc 180
 ttgcgtcaa agttgacttt tagtgtacaa atcaaata acgttaacag cataagacaa 240
 aaggaattaa gaatattaag acaagacaat ttaaactctc ctttttgtgc gttgtggcac 300

gagttgctta ttgaacctat ggacgctact ttctgatgat tgctttttgt acttaaggat 360
agagtaattg ttccattgcc ttgtactat gagcgaagtg tcaaagcact tttcttctga 420
ggactggatg 430

<210> 28936
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28936

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cctgttcctg gtgagaatgc catccttacc ctccggagcca aaaaaagaaa gagaaggcaa 120
tttccatcaa gaggaagcat aaaaggagag aaagaaattt cccatcacca gaacgaaaag 180
aagacgaaaag gaaattccca atctcagagt gggagaacga aaaaagaaca gaacagaaaag 240
aacactcccc atcaaagaat gggagaacga acaaatgatg caacaaagaa gaaagctcct 300
gggtcaaagaa actagaaaaa atgtgccgat agtcttttga ccggacgata tctgaacaat 360
acagaattgt caccaaatac acataaacag aaggaaagga aaccacgacc taaatgggtc 420
tgtctccttc taataccgac nncaaattccg tgcgcn 456

<210> 28937
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28937

taatcccttg angactaacg gtaggagatt tgccctttat tcagctaagg actactttcc 60
ttagcaccct tatgttcaat atgtcggatt tgccctggag atttgccctg aattttctcc 120
tttgaaaact attttatttg gaaatccttc ccaagacacc attgaaccac tgatggaggc 180
tttgaggagaa gattataacg atggacatga gataaatgac tcacggcagt ttattgaagg 240
agtattggat cttgaaaaga gaatcaatag actagatata tcgacagaaa ttaaataata 300
caaattntgt cattgttgaa caaattatta gcttatagac caaatcttta ccatttgata 360
atatgtgtta cttatttctg atacgagcat aataaagtga catgaatgtt caaaaaatca 420

aactacaa

428

<210> 28938
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28938

ntgagctcaa tagctccaac ctcatctata ccccatatTTT agaatggcca aggtgctacc 60
aagacgttca aaggtacggc cggagcattg acattatcgg tgaaggcctg gcacttggtg 120
cacttcctca catggatgca acaatagttt tccatagtga gccagtaata ccctaccctc 180
agaatcttct aggccatggc atgcccgttg gcatgtgttc caaaggatcc ctcatgcact 240
tctactagca tttgcttagc ctcttggca tttacacatt gaagcaaaac catatcatgg 300
ttcatcttgt acaagatatt tccacttagg aaaaagcagg ctgcacaaac attactcagc 360
tcagcaagaa caatttctta taatattcaa ccaattttaga atcaagaact caaca 415

<210> 28939
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28939

taatcccctg aaaatgggtgg gtatgagatt tgccctgtat tcagctaggg attactttcc 60
ttagcaccct tatgttcaat atgttcgata aataaaaata gttttttttt ttttgctatg 120
tgcattgagag tttaaatgct agttgtcaca caaatgtatt acacaaaagt acctatcaca 180
taaagagtgg ctatgcaatt tagaatgcat caagaagttt tagattgtgt ggctacattc 240
tttggaacca aaggcattgc atggaaaaat tactacatac ccatacctaa cggaatttc 300
tatttaccgg ctgtcctttt ttgagggaga tgtcaccaca tgttatgcan gatgggtggaa 360
gcagtcaata ttgcatcatc atcatgattt tgcaaagaat attactcagt gaa 413

<210> 28940
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28940

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acagaaatac ttaaacaac ctgccaatta ggggttttgc ggctttttgc aaattccgcc 120
catgtttctg gatcaaggcc atacttgact gtaggatcag atatttgctg accttcattg 180
tcagcaaaga caaatTTTTga agtcaatgaa gacttaaatt gcctccatct tgctgcaact 240
gttgacatca cctttttttt tgcattttca ccttcagggga tatcaaattt gcgctacaca 300
acaaaaggag ttatgtaaca gtatgtaaatt gaatccttta caagtaactt aacaacaaaa 360
tcatgaatac aagtgtgaat tacttaccan aatatctttc catattaagc tctttagatc 420
gtcg 424
```

<210> 28941
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28941

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gtgcagtggt catgtggcca aaagaagaaa gtgcgtgttt ttatatgggc tctaattttg 60
tttttattcc ttcaatttag attatttttg tttcatcttc tanattttaa ttattttttt 120
taattttctca atttcaaaaa atatttttct taaaataaat ttcaatttaa aaagccaaat 180
taaaagttac tcaatttaa aagataaaaa atatatctaa atcttaaata tatcaatcgc 240
aaattgattt tcaattatca tgattatttt tttcaaaata tgtgtaaatt taaattaata 300
taatttttgt ttgtaaattg atattacact attgattcat agagaatgtt gtttagaaac 360
ttataatcaa aactaattnt aagtcataa ttattcaaatt gggttttaag aactatttan 420
ataaaagttt 430
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<210> 28942
<211> 197
<212> DNA
<213> Glycine max

<400> 28942

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gagtcatgac tccacgtcga tgtatctgca agacactcct cgattcaaga ttcacgagca 60
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gaattctaga tgcaacagag ccctactacg tatacgatat gtctctatac agtttaccat 120
 ataccacatg tcacagttat gacatacata agagagactt cacatccaca gtgattactc 180
 tctagaaatc gattgcc 197

<210> 28943
 <211> 239
 <212> DNA
 <213> Glycine max
 <400> 28943

cctgagtccc caccatagcc gtggtcagca ctttcaaacc agaatggatg gttgcagcac 60
 ttgtttaatt ccaccacaat attcataaga gaaacctgat atttagcaga aaaagattag 120
 tgatgatcct tgaagagaac cgaatctcga tacatgcatt atgacgttaa acttctccga 180
 attttgccag accacatgat cataaacaga ggcaagattt cattataatg tcttctccc 239

<210> 28944
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28944

tgccctcaaag aggtccttta ttgacaaggc agccgaatga actagttccg ctccggagta 60
 tgatagtcaac cgcttttagga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cgggagcgc gcgctccagct cagggacgac gagtatactg atttccagga 180
 ggaaatagga cgccggcggg gggcatcaact ggtcactccc atggccaagt ttgatccaga 240
 agtagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgngta aggggtcagt ggatcccggt tgatgccgac gctatcggcc aactcctatg 360
 atatccggtg gtgttggaag agggccagga atgtgagta 399

<210> 28945
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28945

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 tgtcttaagt ctttacaaaa cagagagcat ggggatcatc aaattggcat tattctttga 120
 aaactcgaac aatacacact tggaggattc atgaggatat cttttactat taattaattt 180
 atactacatg gcttcgataa aaagaaaaaa aaaggaaata actttccac ggaagcaaaa 240
 caatcaagca acctttgtca aagtttagct taagaaaagg acaaaaatga aaaatgttcg 300
 gcgtgtggaa gtgagatgtt ttgatccctc atctggttca gccagtaatt tatttaaagg 360
 tagcaaatac ttactcatcc attgtaaatt attaacttga taaatgaaga aataaagggtg 420
 ttaatc 426

<210> 28946
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28946

ggcacttctt cgctttcttc agggacttca gcttcttcc cacttgggcc ttttagcttc 60
 gggagccaat ttatcccttt tgcctagaa ttcaaccact tgtgatagtt gccggcgacg 120
 ccattgctac ttcccctaag ttcttatct ttctttcta ttgtattcca cgctttttgg 180
 attctctgaa gtatcctcgc attggcttca ctgaaacctc gcgcgacgaa aggtgcgatg 240
 atctcctcca acggtgcacc tcacataggg tagcctagtt gtcttatggc caacatggga 300
 ttataattaa tacaaccctt cgttcccatc gaggtgacgt atgggaatcc ttcacacaag 360
 cacaacactc ctgcccctcc ttctttccat cgggggaacc agctattgga cgctcctacc 420
 atacctgc 428

<210> 28947
 <211> 247
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28947

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 aatttctttg gcatttatca ggcttgttat gtcaccgttg gctttgccca aaccatttcc 120

gggatcgtaa cgcgttccca acataactcg ggccatcatt actggtgcat cggacaagcg 180
aagcttgcca gaaaaggaat ccacggagga aatgcttacc acctcgaaaa actggaaagc 240
ggttttct 247

<210> 28948
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28948

actcagcttt ataagagcgg gttcgggaga caaagggtcaa tttcttggtta tatgcgaatt 60
tttattttccg agtactctgg atttgggtacc accatgctct cctgattttcc agctgggaaa 120
ttggcgagtg gaggaacgcc ccggcattta cgctacacgc ataatgtaaa cctttgcggt 180
ttcaaaaagct ctatagttgg gcctaggctg tagagatttt ccttttgcta aggctttgcg 240
tcttttggtt ttgaatctat aacacaagga tctttcttca tctgttctg gtctctaccc 300
attctcattc attngcatga ttacttctat ttctgaaacg gcagatccga tgacgagtc 360
ccgaaaagta ctaataacctg tgaccgcct atcgacttca agcaagacat gaat 414

<210> 28949
<211> 413
<212> DNA
<213> Glycine max
<400> 28949

ctcacctttg gtctctctta ttttggttgc atgagattac atgctctatt ttcattctcc 60
actccaagta ggctccgga tcattctttc ctttaaaggg aggaatattg agtttaatac 120
catcaatccg gttttgtcta ggaacacccat cattccctct tctctctctt tcttcttcat 180
tatgatctct atttccatt tgatccaacc tctcatggag cgcattctct cgttgtttca 240
ttaacctctc caaatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300
cattaggatt tgttctgtc atctcaaaca aacaaatcaa acgtaacaag acaattatag 360
ttgttggttg aataacctac cactcaagt gtatcacaca attatggctt ttc 413

<210> 28950
<211> 404

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28950

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ttttcaacca tggagatgta gcgaaagata aaggagaaga ggtaagagga ggcaccatcc 120
actatggaat cagccatgga aggaggagt ttgtaacgcc cagaaatttt gataattgaa 180
aatagatggt tgatgttttt cttgtgttat ttgattactt gattaatttg gatgagttaa 240
gggtattatgt gaattatcca tgtgtgattt tcttgatgtg gatgttgagt tatgtggact 300
tttattgact tangttgaaa ttatgagatt tcaagtttta cttanacctg ttccactaaa 360
accacaatcc tgaattagtt aaccgttgga tcgctttcaa attt 404

<210> 28951
<211> 273
<212> DNA
<213> Glycine max

<400> 28951

taacttgcggt attgctgtga cttacagtct tcaccggggt caccttatgt gtcctactga 60
ctgtgaagtc accctcactg gctgacagac ccgcagggtc agccatacag agatttgacg 120
aacgccacca tgcttgctct acaatctcgc taagacgac catctatgat ggccgggtctg 180
ttcactgcga ctgactatcc cgccatgacg ctgagatttt atctctgtac agctctctct 240
ggaactgccga gaggtagctc tgagacccac tga 273

<210> 28952
<211> 173
<212> DNA
<213> Glycine max

<400> 28952

tcacatataa ctgaaagttt ccgtatcctg cagcatgcat catagtatct ggaatgccat 60
cagaatttgt atggtgctac gtaaactctg atatcttcct aacttatcaa aatttaaagt 120
ccgacctttt gacatcaaca aacacgacta cacgggtggag agatagatgg tga 173

<210> 28953

<211> 310
 <212> DNA
 <213> Glycine max

<400> 28953

agccgtaagg tttgggtccgg cgacgccttt atcggctgac ccggcgccggc catcgatggg 60
 cgcacccatg tggcctcggc cctggagcgc agtgccatgg cctgtctggg cgaagcgcac 120
 ggtggcgaag ccttcaggta ttgacgcgag cacatcgccg cgtgccccg actcaaggcc 180
 gacacggggc tgaacctcga cactgtgtc cagcatccca gacaccagat cgacgtgctg 240
 gccgtgaccg gtcccactag gaagaccacc accgcctggc ggctggaaca cgcgctggcc 300
 aagggaagct 310

<210> 28954
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 28954

gcattatgca tcatcgtgag taaatgagaa gaaaaatttc taagttggaa aagtttcttc 60
 agaaggaaaa actctatggt ttaatccatt atagccttat cacaatcaat tacacaaatt 120
 atcttaagct tgcaaagtta tgtctcgtat cgatttaatc aatttcaacc ttctcataat 180
 cgattacata attttttttg agtcaatgac tgattcattc acgagtctct gctgtaatcg 240
 attaccatgt gatataatca attacttctt tttctataag tagttcacia gtgaacaaga 300
 acactttaat tgattact 318

<210> 28955
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 28955

ccaagtacac actctatagt ggcactagtt cggtcaggct gaccatctgt ttcacgatga 60
 tatgccgacc tatgcttccg ctctgtcccg agggctacat gtgaactatg acacaatcgc 120
 taagggtacc ttggatccct gtctggagca ttactctacg gaattccatg catccttact 180
 acttccttgg tgtaggactc cactaacttt acccttctat acgcgtgtat tcaactgagat 240

<210> 28956
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 28956

tataaataga agcatgtgta acacttattg taactttgat gaatgagagt cttgtgagac 60
 acagctcaaa gttcaacttc tctccccctt ttctctcttc aatctcgtgc tccccctct 120
 ctctttcttt tcttccattg aagcatcacc tccaagcttc ttatccaagg cacatttttg 180
 gtggcaaagc tccttcttcc atagcttatt ccctagtggg tggcgctcc tctcacctct 240
 tttcttttat cttccgctgc atctccatgg tggaaaatca ccattgaagg acctcattga 300
 agtcataga ttcagccacc tcttctctt tatcttccgc tgcattcca tgggtggaaaa 360
 tcac 364

<210> 28957
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28957

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 caagcatgct agctatatct ttttattcca actatatcca ggtggcgct atagctctac 120
 atacacacca ttcgcccgat cggcgggaaa gaccgtcaca tatgccgaga gcccaaagaa 180
 acctcatctt catgagcacc gtgggaaaag cacatcttct ccagagagac atgcgctctt 240
 aatacagaac ataggcgaca atatcactaa ccgactaaag aggatatgtg actcactgat 300
 acctgagca ccacgcttct aacgcaatca tttgaaacaa acgcggggga agctcctaaa 360
 cggctaaacc ttagcacctc gccgaggggt ttgatgactc gctgagctat agttggcagg 420
 atctcgcag ccgtcacaca tgctggcg 448

<210> 28958
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 28958

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 tatattatct acacaaaaag tacacttctc tatattatca tagcgggtgt atttcctaac 120
 gactaaaata acttgcoctga gatgtcctaa gtgatcatct atgctccaac tgtacactaa 180
 aatatcatca aaataaacia ctacgaatct acctacgaaa tcccttaaga catgatgcat 240
 aagcctcata taggtgctta gtgcattagt gagcacaaaa ggcatcacta gccattcata 300
 caaaccaaac ttggtcttga aagcgggggtt ccaactcatca cccgttatca tactg 355

<210> 28959
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 28959

tatccgaata gcatgaatca tgtacttagg atattgtgcg accatactct tctgctttac 60
 tcctgacaaa gctattatgc gagcaacccc tggggcttta cgcaccaagc gtttatgatg 120
 atgtgatacg gtcttattca cctctatggt agagcctact ctctaaagga tctttcagac 180
 tatgctgaca tgcttatgat attgaatgta ttctacgtca gatcttgctt cgtacgttta 240
 tgggtctctac ccatactcat tccttgaaca tatcctataa ttcacgaaa accgtgcatt 300
 ctctgacgag caccctaaat gtaccatac ttgtga 336

<210> 28960
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 28960

tcttctacac tccggagtga tcacggtgca tagcaagctc aacatctcca actttaacct 60
 ctttacggtg ctggaacaac taaaaaatat ctctccacc atggcctgca gcactatgac 120
 atacaccatt cggagatcct ctgtccgaat ggcaaatgat agccactgcc aaacatagat 180
 gtgctatgaa tctaaagtat caataatacg gataaaaaaa atctgttatt aatgattttg 240
 catgctagac cagaggatca gagtctcctt atcaggctca tactcaagtg aatcatgatg 300
 tcaaagagag caggggggaaa atacatctcc aactggcata gtataattgc gggctcatta 360
 tcaaactca 369

<210> 28961
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 28961

aactgcaaag caagttatga aggtagagca attagagaaa ctagcaaaac tggaagattg 60
 gtgtaagcaa tttcttatta ttactttctt gataagggtg tgcattttgc cgatgttttt 120
 aagtacatat ctttttttat actgaagaaa aaattaaaat ggtaaattag taatttcttt 180
 atatttgtaa gtgtgggtca aagaccatgt cagcattaag aacaaacatg agcttttagct 240
 tcatttgaaa agttacatta aaagctaccc aaactagagg aataactaac atttcagagt 300
 ggcaatatac tcacaatatt ggatggatac ttgcaaccag ttatctagcc tttacagcta 360
 acat 364

<210> 28962
 <211> 180
 <212> DNA
 <213> Glycine max

<400> 28962

acacactctg accgtgaaac ccatttgacg cccgtgctaa ccccagggag atctgatcca 60
 cccccaccct ctgttaccga acacaggtga ctggactgct cattgtccat gagaaaccgc 120
 tgcagtcctg ccatgaacgc ataacacacg ctatagagac accactcatg attaccccct 180

<210> 28963
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28963

acacgtgttt ccgaactctc tgacgatgat gcttattacg cactactata gatctttggt 60
 tgtgagagga gtagaaatgt aaaaaaatgt gaaaggagca aggagtgtgt atacaatgta 120
 cataggaatg ggacataaag tgacttggac gtcctaccgt gcgcacaaaa tcaatgcata 180
 aacttcgacc tatgttaggg ggaggaatca ttaacaaaga ccataagaca gctctgctgt 240

tccttacata taagaataac catgtgatgg gattcaagcc aaaatttgtg aatagtgtta 300
 tgtcngcaat aataaacact ggctagtggc gactaactaa cggacgcaaa gacaattcac 360
 ga 362

<210> 28964
 <211> 182
 <212> DNA
 <213> Glycine max

<400> 28964

cttttacgcg ctaggccgtg cttgcttctt gactttcatg aattgagtaa accacctatc 60
 actactttgt ctacactggg aaattttcag atcatgaaat ccctcacgac atgtgcttta 120
 ttggattcct tagagagagt atgaaaatat gggataccgt tgcaagagct atcaccttca 180
 tg 182

<210> 28965
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 28965

catcctgatg caatgaatct atgcaatgcc tgtaattcga tatttttgat agatagtacc 60
 tacattacac acagggtacct actttctata cttgactttg gtaccgtcac actaacatgt 120
 ataacattct ctgctgggtt tccctattag gatggagAAC gtctacataa tgttgtatga 180
 accctacaat gattaccagg tctattactc aaacgtgacg ccctacctag ag 232

<210> 28966
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 28966

ctcatctaac atacctgcgc agcttctctt caagactaca agacatgcta cgaacattct 60
 ggcgggcccc tcagagcatc gatgctatct gcacaaccac ttatactgat cacactgcct 120
 tgtcttagat tcagggataa ttgttcagta tgcttccgga cacgcataca attcataccc 180
 acagaagttc gtttcctaac tgataccgca tcttgccgat cacatagact actacttgca 240

tgataacgat atgttcatga acctcactaa gagtggaacg atgctctcat gtgactg 297

<210> 28967
<211> 368
<212> DNA
<213> Glycine max

<400> 28967

atccaaagaa gaaaaaaaag gactcatctt atataccaca aggtgaagtt taacagctaa 60
gaactggaga caatatcacc tcaatatatt gttaattaaa agacatacat gagaaaccat 120
actaccatta tctagttttc tagcaccaac caataacttg agccactaga tccctaattg 180
atggcatcat attaccttgc tctattattg ataccaaact tcaatacaaa accataagtc 240
aagcaaacct tctttgatcc taaagggtatt tttgggttga aaattgtatg caagatcaat 300
ttaccagcaa gatcagctct aacattcttg ggatgatata aaattggatc agcaaataata 360
cagattgg 368

<210> 28968
<211> 275
<212> DNA
<213> Glycine max

<400> 28968

gtttggagtt taaagcatgg acaacaccag gagaatggat catgatcatt gttcctacct 60
tgtcggtaaa tcaatggcaa tgctaattac atataggctt tctagttttt ctttgatcat 120
gagcaactac tcatcttagt ctagagggtta tgatgtaagt gtccaattgt acctctttct 180
ctgttcttaa tgaaattcct cagcattatt atgttaatta attctcttcc ttgttcttat 240
tgttcaatcg gaaactaatc aatcctattc ttaat 275

<210> 28969
<211> 304
<212> DNA
<213> Glycine max

<400> 28969

aataggaaga agctgctcaa ttgttgcttc ctgcaatgaa gataaggtag aacagagatg 60
cacatttaca ccaaataaaa ctactactat cacaatggcc tagaaaatag attttggtga 120

ttatctttta ttggagaatg gagacagaag atacaaattt ctaggaaact aaagagacag 180
 ggggagaaag gctaaaaatt ggtgatacaa tattagttgc atcacaatct agtaaattca 240
 atataagtgt tcatacacta ctacaaaaag cccctttttaa gacacgtgct ttacgtcggt 300
 tgta 304

<210> 28970
 <211> 150
 <212> DNA
 <213> Glycine max

<400> 28970

ttcgtatgac tacttcttta gctatcgaaa agttacagaa actgacggac tgcatatcaa 60
 tgctctctta tgattactgc catgttgtag atgcccacgg actgtatatc agagcttgct 120
 tatgatgccc gacaagtaac agagcttact 150

<210> 28971
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 28971

actttggatt tggtagcacc atgcccctct gatttccagc tgggaaattg gcgagtggag 60
 gaacgccccg gcatttacgc aacgagcata atgtaaacct ttactgcttt aaaagctcta 120
 tagtcggggc taggctttat agtttttcca tttgttaagg ctttgtgtct tttgtttttg 180
 aattttataat acaaggatct ttcttcatct gtcctgggtc tctaccatt ctcattcatt 240
 tgcattgtttg cttctttttc tgagactgca gatccgatga cgagtcccc gaaggtacta 300
 atacctgaga cccgcctatc gacttcgagc gagaaatgaa tcagacggaa gatgaaggaa 360
 gtgag 365

<210> 28972
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 28972

tctaatagaa aacgtctctc tggaatacgt atatattata ccaaaaagat atttctctaa 60

cagataaagg attaccaaag aatgtatctc ttttaagaaaa aatgatataa tgcgtaatta 120
 aaatataaaa aggacaaatg ggggtatgaa tagcaagtgt tcaatataat ttctacccat 180
 aatttattat taaaaaattg tacccattat tctctctct caacctttct tcctttttta 240
 tatttgaaga attattttcac aaaaataata atacatttca caaactaatt tcttaaatat 300
 tactataatt ccaacgatga ata 323

<210> 28973
 <211> 118
 <212> DNA
 <213> Glycine max

<400> 28973

caacaatgtg attcgaagat tagatcatac acctcacaca ggcaaccct tagataggag 60
 ctatcatacc cacgtgacaa tcgcttacgc gagatatgac tttcctgccca ttttacct 118

<210> 28974
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 28974

aacatcacaa tcttaaaatg ctcaaacttt gaaatagtgg taaacaacaa ttattgatgt 60
 ggatttatat gtatgtgatt tcagggtcat tggagctatt ctcatagtaa tgggacttta 120
 ctcagttctg tggggcaagc acaaggagaa caaagagaaa gaggcagaga taactattga 180
 ggtattgaag tggtgttttag aaaatgggat gacgttggag actatggtaa aagatgtcga 240
 aacaaacaat gacattgaca tgcaaaaggg tgaagcctca agagagttaa gggtagccat 300
 tggtgttcca aaagtttaaa gtgggttaaga ttagaaagga aagggatgaa taataatag 359

<210> 28975
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 28975

agtcctgcta atgtcgacct gcaagcgtgc tagctcgitt tatgagctcg actatgggag 60
 gatgtgggag ccagcataac tctgattctt acagtcctta ttactgtacc gatgtacatg 120

gtatctctcc ttacgtatac ggacctagag gagctaataca ttctctgtat acaaggagat 180
catctattga gaggacacct tgctgacagc tatgatcggt gtcactctta tgcaacgaat 240
gaccttctct catgagaata ggacgggctg gccttcaaaa cccaaggaag ataagggtaa 300
ggccatagag aaatacacc ctaagactag ttcccaagaa aggactagca acattaaatg 360
cttcaaattgt cttgggagag gtcacattgc ctctcaatgc cccacacaga aaacctatgat 420
catgaggggt caagaca 437

<210> 28976
<211> 336
<212> DNA
<213> Glycine max
<400> 28976

ggttctgcct aggcattgtca tcgaaactac ttcttgatc ttgacttatg cttggatgac 60
gattgtatcc ttgattgctg tatatgtggt agatcccttg ccattgggtg ttgatgtatt 120
gaacttctcc ttgattgttg tagcattgac aatcatgttc tcaattatct gtatagcctc 180
tcttggaatc ttgagagaga ttttcccagc agctaaagca tcaagcataa gcttgctcag 240
agctttcaat ccctctagaa acatgttgat ttggagagct tcatcaaaac cagtgtgaggt 300
tttctaaga gaacctctaa atctttccca agcttt 336

<210> 28977
<211> 235
<212> DNA
<213> Glycine max
<400> 28977

gctatgattt ttactacgcc tgcgatctct tgtgctggcc ttctgaagca ctgaacctat 60
ctactgtgag aagctagata tatctgagag agagcccca cataataaac aggtacaacg 120
tttcgttact tgaccacttt agtgtcacac ctccatggat accattacta tgcgcttttc 180
tactaccagc atggatagcc acatgatcaa cgtatgaagg accctctaata gattc 235

<210> 28978
<211> 366
<212> DNA
<213> Glycine max

<400> 28978

ggatcgaaat ctctctgttt caatgtcaat cttccttctt ttatgctgag gacaagaatg 60
ttccacatca taagtgaaac ttttggggga aattctgaaa atctggaaat cagttgaaaa 120
gctggtaatt tttccatcac tgtgcaatgt cttatgcaac acctcaccat ctttacacaa 180
ggtaatgcta ttgggggggct gttgtgccaa accaacatta acatcatcca taggagcaga 240
aaatgggaac ccaatagtga aatttgtaac actttcatct gaggatttat gcagatcatt 300
tcccataact gcttcagaag ataaatttgc caacttagta ctacattcaa cattgtctag 360
tttact 366

<210> 28979

<211> 262

<212> DNA

<213> Glycine max

<400> 28979

actgcagctc tcgtgacgag agtagagcaa tatgactacc tagaacatct gttacatggc 60
tgccagcaac atcttatcat tactttcttg acaaaggctc gcattttcac catgatcgca 120
ttaacatatc gtgagttcta ctcaagagag aattcaactg ctaagacagt aattacctta 180
tatttgtccc cgtggaattc atcaccatct cttgcattct tatcctgcat aagctgtagc 240
tccttttagct tggattcatt at 262

<210> 28980

<211> 278

<212> DNA

<213> Glycine max

<400> 28980

agacgctcgt tattgagcta cggctgctct cgagaggatc gaatggatcat tagttgtgga 60
acgaatgtgc tatgagggga cgtgactcgt ctatacgtc gaaattgagc gacggatgct 120
ctctagaggt gcgaatggtc ataggtatca acacggatgt ccgatacgtg gacgtagtag 180
atcgggacgc tcgaaatgga acagcgggaag ctctggagac tatggaatgg taataacatt 240
ccactatgat gttcgacttg ggaacgtaat atatctag 278

<210> 28981

<211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28981

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ccgccgcttg gattttgatg tcgcatgact attgtacagn gacacatata cgaatctctg   60
anagcctcgg tgcattgccg ctagcagtna gatcgctgtc agcgcagtgt catgagctat  120
agacatatatt tcttcacttg gngactcata ctggcacatg aagctgagca cagaccatca  180
ctactgaccg acacgtaggt ctattacaa cagacacatt acataattat cactctctat  240
gcactcgtag atgagcgtag atatgactac tctataaact agatgcatat tagtgagaca  300
ctcgtatgca gcgtagcaca tgtgtatctg atataatacg gaacactact agagacttcg  360
aactgtcctc ctcttgaca cggaaccaag agctactctc cttccgatgt ccttgggatg  420
aatcaggact aagaccatga gaccgctctt gtgttactta tatatgaccg gatcccttga  480
cttggtatgac actcctatgt gccaatgccg ttatctcagc tgtaacatac actggatgaa  540
gccactatct cactgcagcc aatcaagatc ttgcgagtga ccatctatat   590
```

<210> 28982
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28982

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tgaattagtt agcaagtatg acaagtcaca cggaagattc accaagcttc attcctcaca   60
agtctagtgt ttctcttaat cccacatgtg tctcggttat aagtgtttca attacaacaa  120
ctgaatagta aaattcccaa ctttgacat catctcagaa aatacaatca tacatacaca  180
acatggatca ctatggactt tatcaggctt gtaacgtggc tgggctacaa agaattcatg  240
cttttttctt ggattcaaag catggttatc aaactctcga gttaactcgc taactcttac  300
aagtttatga gtccacttac cctctacgag ttgactcgtg tgtaaactct cttnttagta  360
gactc   365
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<210> 28983
 <211> 276
 <212> DNA

<213> Glycine max

<400> 28983

ctataaatac actcatgttg ttacacttat tcgttctttg atgattgaga gtactagtga 60
gacacatgat catagttgaa cattctatcc acctttttct ccttcaattc tcgactatcc 120
cattattatt tctttcacta cattgagaca atatcatcat gcttctgact caaggctcaa 180
atctaggggc taagggtgaat ctcccatatc ttattogeta tagtatggag cactactcca 240
ccgatctgcc tatatccacc gcagcatcta cttggc 276

<210> 28984

<211> 327

<212> DNA

<213> Glycine max

<400> 28984

tcactgtacc aaacctgtg tataacatct caaatcttgc attggattct attaatgata 60
cactaattgc ttgtattgag agattgtatg cttgattcgt tcgaattatg gtagataccc 120
ttgacattcg gccgatgatg tattcgaaca atctgctatg attcgtctcc gcgtaccgcg 180
ttgatgcaga tgatattctc gataccgaac gattttttaa accttgctac agaattagag 240
acagctgacc ggctctggaa aacatattgt acatactgat gcaactgatg cgctgtgtgc 300
gttgaacatg gaaagattat atctata 327

<210> 28985

<211> 353

<212> DNA

<213> Glycine max

<400> 28985

gctcattcac gaacggccac tagctcatca cggctctatt gctcccaatt acgcccacct 60
acacactcta agaaccttat ataactaaat cataaacatg acctttctat gtgtatatgg 120
cacctgcac tcacacagac tcttagatct atcctgatac gtgcataact gaacacactt 180
gctctatcat gacacgcata catgctcatc ttgggtattct tcatatctat ctatacacac 240
acttcataaa taatgcagac tcttgacaca ggagcgtgct gcattagata ctctactttg 300
catcactagc cattcatcca cctaaagcct gatgctgata gcggtatatc act 353

<210> 28986
 <211> 291
 <212> DNA
 <213> Glycine max

 <400> 28986

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 tactacatga tcataggctt gcagaacaat cccattatct cagctgtgtc tataacgaaa 120
 ggcgtcgaac gatcgaactt tcacaacgtc gcaaccacag aacggacaat caggccagac 180
 tatggcagcc aagctaacaa ggactaatgc agaaactctg ctcaacacat caaccgatat 240
 cacagcgttt ctcaactaaa gaccacagta acaattcctt cgatccaatt c 291

<210> 28987
 <211> 294
 <212> DNA
 <213> Glycine max

 <400> 28987

 cattcagctc tgagctgtga tcctctcagt cgagctgggtg acatgccact tttgtattgt 60
 tgcctttctac taccgtgccc atatgactac tgcttacctg agatatccag ttgcttagct 120
 ccaactatgc tctgtgtcgg tgcggaact ggtctttcat atctacctga cgatcgtgtg 180
 caaaccttat atcatagacg agtccgagat cctctagccg actgggtcat tgtatcctct 240
 gcctactatc tatagtgtga tgaacttgaa catcatgatt tacgggtcacg agac 294

<210> 28988
 <211> 367
 <212> DNA
 <213> Glycine max

 <400> 28988

 tcttaaagca aaaatggcat aataacctcc tcccataaat acaaacatca atgtaaattt 60
 agagcaagct tatgcgccta tttccttaca aacgttctct tgcacaagac atttaaccga 120
 aaaaatgcac ccatatacaa tcaaggcagc ttcgttacct agattattta cacgtacctc 180
 caaggtgtat ttgttactta catcacacac atctccttgg ctaaattcac atacatgcat 240
 actcaaagca ttttggggca ccaaaaattg cacatgtgca catcttggca tttctaatac 300

ctatacatat gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 360
catgctc 367

<210> 28989
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28989

cgcccttggtt ggttttgatg cgtttgcaag tcgngggccat atcagctctg accttgatgat 60
actgtgaggg gccngcangt atgcttatct tttcaatacg gacacagact atgcagattg 120
agagctcgct cacattgttc gctatgctcg acaatgaacc atgacggaca acagtcagaa 180
acattgactc acttatacga catgacttga agagcatacg tacctactca ctatttggcc 240
ataaacttat tcattcctga agatgatgac atatcatcag aatggagact gaagatgctt 300
atgacatga tactaaccat acccggtgat aaccgcttaa acttttgatgat accatagtag 360
gtgcgaacat ctatagccct gaaatctact tgctcataca cgactacctc atgctctatg 420
tatcacacat gctttatgtg tgatgctcta agaacctcta tagaaagagg tgcggctgct 480
gttggtaaat gattgtgtac ttatggctta ttacgatgca cag 523

<210> 28990
<211> 127
<212> DNA
<213> Glycine max

<400> 28990

ctaattatag acatacctgc gataacttac taccctcatc taaaatatta acaccagcca 60
ctttcttggtg ccactagatc cctactggat ggcatcatat tacctcgctc tattattgat 120
accaaac 127

<210> 28991
<211> 236
<212> DNA
<213> Glycine max

<400> 28991

aactttacca ttgacctcaa atccaatact ataataaaaa actatcgctg ttgccacct 60

acaactgagc tcacgtactc ccacgtagcc catatcctca tttctctgaa caacgggtcc 120
ccatcaatcc taccaagctt tcacaacatc caagcaaaac aacattgaaa cagcacaagc 180
tatcacagcc tatcaaaatg gaaccgtgcg ttaaattgtgt tcacacatca agcgga 236

<210> 28992
<211> 313
<212> DNA
<213> Glycine max

<400> 28992

cacctctata atcgtgatgg ctgtctcaga gcgatagttc tctgatcaag aaacgagcat 60
caactaatgt atcgcgtcaa caaactaggc tgttctctgt tatggatata gccattggca 120
aagtggcgcg atgaatagcc gtgctcgatc taatgtctac ccattacata gttggaactc 180
aaagcaccca ctagatctcc acagaaacct cacttccttt gtgttatctg aaagtccatc 240
tcgctgaaag cctagtccgt tccgcaatgt catatcttag acctcactat atgcctcatc 300
ttgagccatg cat 313

<210> 28993
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28993

cgagaaggag gaaaggatgat tggagatgcc acttcaagga gaagatgagt cgagaacaaa 60
ctcaccacca tatgaagcca tggataagag cttgaaagta ggagaagatg agtggaggga 120
gagggagaga agagggcagc aaattttatgc ctcaaattag gtcaaaacat taaagtctaa 180
tttcttaaatt gatcaaaactt gaaaaaatgc acacacaagg cctctattta tagcctaagt 240
gtcacacaaa attggaggga aatttgaatt tctattcaaa tttcacttga attagaattt 300
gaatttgtgg atccaaattt ggagccaaaa ttntactaac tatgagtaat gaatttcagc 360
tat 363

<210> 28994
<211> 207
<212> DNA

<213> Glycine max

<400> 28994

gacccatatat agactacctg tctgcaagca agctatatat tttgttatta gaccacatca 60
cgagcacata ccttgctctc ttaagatgag ctaactgcta gctcgaggtc cacaacaatc 120
ttggatgagg gtttatgcga aacagacacc aaggatgtag gcgctatcct catgtaccag 180
gaacaattct aagtactcgc gggccac 207

<210> 28995

<211> 226

<212> DNA

<213> Glycine max

<400> 28995

ctatctgacg acgatgctta ttacacacta ctatgaatct ttgattgcag aggagctaaa 60
gataccataa ggacatgagc aggcgcgtga agcacttgat gatacgaatg gcacatgatg 120
agagatagac cttacaatga gcgcgcaaaa tcaatgcata aacttcgacc tagcgtatgg 180
ggaggaatca ttgacataga ccataaacag ctctgtgtcc ttaata 226

<210> 28996

<211> 384

<212> DNA

<213> Glycine max

<400> 28996

aacattgcga gaactccgta tatggcccca ccatagcctt tctgacctc atctgtgaag 60
aagctcattg caggacctcc ccgacataca ctcacctaac cttacgctta ccgaaacggg 120
gagcatagca atatatttgt gactaagctt gagagggggg acatatgtta cagcgtagga 180
tctgatgttt atccatgcat aatgcaagga tctgctcatg cctgatgctg atatataccg 240
cctatcactc gcttgcatgt tcagcttcat actggacact agaaatccga tgacgagtcc 300
cccgaactgta ctactacctg tgacctgcct atcgacttag agcgagaaat gtatctaacg 360
gcttgatatg agagactgag agat 384

<210> 28997

<211> 317

<212> DNA

<213> Glycine max

<400> 28997

tgaattcaaa aaaaaaaciaa aaattacaat tacaattttt taaaaatatt gtaatatttt 60
atttttagctt gtgtcacgt actcccacgt agcccatatc ctcaattgtc tcagcaccgg 120
gtacccatca atcctaccaa gttccgctt tcaatgagct cttttttaag gttgagagaa 180
gaattgattt ggtctatgga ggtggtagcg tgggtttgat ggggtctagtt tctcaggcgg 240
ttcatgatgg tgggcgccat gttctggggg ttgacctctc tctctctctc tgtatctgtc 300
tctctatcct aatctca 317

<210> 28998

<211> 154

<212> DNA

<213> Glycine max

<400> 28998

ccacactttg acgtagggat ccagtgtgtc cgatcatgag tatccgatgt ctgaacttgc 60
ataccattcg actacagaat ccgactgttg actatcgata agaagaatcc atactgacgc 120
agcttcttgc aattttcgat agaagcttca tttc 154

<210> 28999

<211> 321

<212> DNA

<213> Glycine max

<400> 28999

catccaacta tagagtatga tgcagttacc gaaaaaaggt cttcatcatg tagtaatagg 60
aacatattat gcagatgatt tggtataaga agtgacttat gtgtgcaaag gtatggctaa 120
actcacttat aacatacata tataaagaat tgaatagtca ctaaggatgt atttaacaaa 180
tcacaagttt caacaatccc gtttaagata acacactaag gaaaaaaaaa gggattagtc 240
aacacatgta ttatggtata gaagacatta aggatgcaac acacattaca agcatcattc 300
aatctcattt aatcatataa a 321

<210> 29000

<211> 220

<212> DNA

<213> Glycine max

<400> 29000

agcggtttatc tttttcatac gacaataacg ttgtagtcgg atgaccatat cgagtagctt 60
catatatccg actctcgtat cgatatacat acgctctgaa ctagtatata cgactctaac 120
gttatagtcg gatgaacgag ctgataactt aagatatcaa gacccaccga cttgatatat 180
tacgctacga gatcatacat acgacaataa ctgttttgtc 220

<210> 29001

<211> 235

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29001

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caatggccat tacttttcaa tcgaatgatc gattcaaaga cctaactcat ctaaactctc 120
gaaacttaac aatggatgct ctctagaaat gcgagtggtc gtactttatc acaccgatga 180
ccgatcccat gacatatcat atgtagacgc tcaaagatga catcggatac tcttg 235

<210> 29002

<211> 244

<212> DNA

<213> Glycine max

<400> 29002

gagagcacia atccgagact tatccaagta gtcttttcaa tacgattagc ttattcacta 60
gcctttcatt ttaacttgta tttgacctta ttacagcaac gcacactttc tttgattgct 120
atgtggtcta cctcttcttt tgtatttttt ttatttggtc ttaacacaac ttattcgttg 180
tgtgtgctga tgtgcttggc cttccactat acatcgcgga taactcccc aaatttatgg 240
aaaa 244

<210> 29003

<211> 233

<212> DNA

<213> Glycine max

<400> 29003

tctatcgaga tgaattacac aacttgatt gacaagtccc tctggcgatg cgccttccat 60
cattcctcac cagtctagag ccactcttaa tcccatatgt gtctaggcta taagctgttg 120
ctaataccac aacgagaata agacaattat gccaaatatg cacatcatta tgataagatc 180
gtatgtacat tcactacatg gatcgacatt gacttgagca cgctgggtac atg 233

<210> 29004
<211> 561
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29004

ctcacctcca cegactcgtc tattntacta ttgcaattct tatactatgt catattcacg 60
tatcatacat tctattgggt ctcanagtac atactacacc tatcagacac ttcactctcc 120
tcacgtcgtt tctctctatc taggtcactt actctatcaa acctaatttc acttttccac 180
ccagacgann nccccagta acactatgta gcttgacccc tgctctatga caatctgaat 240
agacaattag agttaaggat gtacctttaa gataccataa accaacattg gttgtggcct 300
tatggcactt aatgtatctt ctttcatctg aaaacatgag aattcacacc ataagccgaa 360
aatcttcaca ctagccaaca ataagcataa tatctggtct acttgcagtt aagtaaagaa 420
gtgaaccact cctacctcaa tatcttgact tatcaaattg aattaccttt ctcatctcat 480
tcacaaatcg tggatgatgc tcattgagat gatgcttttt tgcactttcc ctgctgcata 540
cttactgagc actattcagt n 561

<210> 29005
<211> 227
<212> DNA
<213> Glycine max
<400> 29005

tttttctata tgatcgtgct acgcgtgtaa tcgacactac gtacatgctc ttgactactg 60
ctgagatgag gatagggtac acgccttccg ctatggagta agccaccttg caatgagctg 120
ctgctgcatt aatcgtcttc tatcataggc tagcagatga tgctcatgtg ctcgattata 180
tgtatagact gtctgagcac catgttagag gtattcccga cggctag 227

<210> 29006
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 29006

tatgatcaaa agagtattcc ttatgaaata tatcttggtt cttatcagca aaagtcctaa 60
 tcatagcttg tgtccaatta cttgtttcgt tttgtttctt accatgatga tgattagtga 120
 atgacacgtg tctaattcgt ttggttttca atgtgttttt tttaatcgct aagagagtaa 180
 agggatttgg gaatcccttg tatctcatat tatataagat tttgtttgcc cgaaaaacaa 240
 aacaaaaagg atcaaaaacta tatgttttga catacacaat gctcatattg aagctgtcat 300
 atgacacaca taatttagtg tttgattata aaattaactg acataaatta attttattac 360
 acg 363

<210> 29007
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 29007

cgcggttct tagctcgaat gcgccccata gagagctggg cgtcaatata gtggtcgctg 60
 atttctgtct gtgatactga tacaatccca aagccactca acataatagc cttgataata 120
 aaccacattt cctgagctgc ctatatagca aacaagcccg cacaatcgc gctatgctca 180
 aagtacgcta tctaaatagg aaacgtctca tgatgacgta attaatgaat acgcagatgc 240
 gagagctttc tccctgtaat ggacactgtc agatctaattg agtccgatgc agcatattat 300
 gtccgctctc gacacccttc aacacgtctc t 331

<210> 29008
 <211> 229
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29008

aaaccaacaa ttaatatattg ccgatataaa aaaagagcat cgctaagaat aagagatcac 60
 aaacaaccat actatctatg caattaaggc agaacaccat attacaagca tacacagaat 120

tatatgggtc atattgaatg gatctcgagt aggctgcagg tcacaccacc agaacttgca 180
actgtctaca gcaatctact ctctgtggc ttgtctntga taactagca 229

<210> 29009
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29009

cgcccttggt tgtgtcgatg acatgacgcg gncgagtcga ttctcggacc tcgcgcgggc 60
ctatatatgt cgatctgcag cgcgtgctaa tcctttctgt atgacgctct atcgacatga 120
agtcactcac tggtttgaca aggactctg gcgatgcaca tagcatcggt actcacacag 180
tctagagcca ctcttaatcc cacatgtgtt tatgctataa gctgttcgct aatagccaca 240
acgagaataa gacaattagg cctacatttg tacattatct cgaaaacatc gtttgtacat 300
tcacgacatg gatcgacatt gacatgagca cgctgggaac acgacggaga cactgagaca 360
tgatgcatat gggtcgaagt cagagcctgg agatgaagct cacagactac tctactagt 420
ttacttggca aaagtacact atcgctttag caaacggcta ctgctgacga actctatctt 480
gacgacctta taagctacat gg 502

<210> 29010
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29010

cctccctcct ctgcacatt actacttaat attaaacttta ctcatataca ctctacactn 60
actaatcgtg catgtacatt caatgtgtat aatctcaact tcatatcacac tatcacatcg 120
acatcattcc ttactatctc tcatcacatg ccaccgctgc actnnnnccct ggctctagca 180
cgagattctc tatagtctcc gacacattta ttgtcttca caaggaatag gttatagtct 240
tcacaatatg ccaaacacac gtgctacatg tgggagtgat atcaaattcc tagcattatt 300
agaaacacat caatttactc tccatattat gtacatgata taccacttgc tctacagaaa 360
taggtgccac tttctcacat catatgttac aatgacagat accacataga tacgtgaanc 420

attagacatg gctacgctct gatacttctt tccagatact gcatatatgc ccagcagtct 480
 atagccacct tatctcattg ataacttcgg atcataatct cg 522

<210> 29011
 <211> 304
 <212> DNA
 <213> Glycine max
 <400> 29011

tgcactctgt gatggacgcg cgatgtacct caacatgtta catacatcta ccttgcaccc 60
 attaacgcgc catcccctgt agtacacata tatatgtgca gacgtactac tacattacgg 120
 actctacagt tttatgagca cttggacgcc atcaatccga ccaaactgat ccagcatcca 180
 tgccatctgc atgatcacgc cacacctatt gacaccogat ctcaatggcg cttatgccta 240
 atctctgttc agccctttta ccgctatccc atgaattgtc gatgcttgac ctgagagcat 300
 cacc 304

<210> 29012
 <211> 560
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29012

cgctctcgcg ctctcctcaa cttgactaac ttctcantaa gttgctgaaa cttaacttat 60
 tcaactngtat antatnttga natatactac atgtttttnc actctaatat cgnctctttg 120
 atattcttga taccacgcgc actgatatat actgtcacca ttatccatct ntcgttattg 180
 ataccgaata tattccatat nnnnnnnnaa cccgcactga caggttaact tgaacgaatc 240
 tttcatacta gatacaagta attcaccacg ttatatggtc taaaataaga cttgcctgcc 300
 acatctgaca ttggagcttt cgttcaatgg catgacataa agccatggca tccaactttg 360
 cagactctct aattgtaata atatatgggt ttttaataag gtttgatcat accacctcaa 420
 tacacttatt gatatcatat ttatcacctt tttatatatg cttgtgtaat cgatctatag 480
 attagtccta ttttcataga acactattct atctttctcc gatttctctt tgtattgtac 540
 ctattgaatc gacaatgtct 560

<210> 29013
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 29013

aaatgactga ggatgagtcg tctatgaatg tgctaattct ttgatgacat taagggtgcaa 60
 ctatcacctg accatatgat acccttgggg cgagctcgta gaacgataag agcagctatg 120
 tgcaaggata cagtagggca tactattatg ccgcattata cgtgcactga ctaaagaagg 180
 cattcgctat gatcttactt gaatggactc acacacgatg cctgtatgtg taccctgtgt 240
 gagccacca gttggacgct catggaagga 270

<210> 29014
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 29014

aacctctatg accatcaggt actacaacga actaaatata tcacatcatg ctccgagaga 60
 ggtaattgat gtctatacag atcatctttg aacctgcact gcctgctctg tgcacttatt 120
 ataccgacct ataataacta ggacttccta ctgtgcgcac gaaatcaaca catacactcc 180
 tttctatgtc ctggtgatga ttccgtgact aagacaatga gcaagctctt ccgtaccata 240
 tatatgaccg tatcc 255

<210> 29015
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 29015

tgacctttct agctacaggt acaatcccac gtggacgaat catcccaacc ttacatggtt 60
 gagtctttcca caatagcagc aacaacaaca gtcgctactg caatagccct ataaatagca 120
 tatagctgag gtttctccg caccttccct tgaagaactt gtgaggaaaa tgactatgca 180
 atacatgcag cttcaacaag agaccaaagc ctccattcat agcttaacta atcaaattggg 240
 acaattgcct acacagttaa atcaacaaca ttcttacaat cctgactgac taccttctcc 300

atctgtccag aatc

314

<210> 29016
<211> 410
<212> DNA
<213> Glycine max

<400> 29016

gcggaaagtt tacactccca tgaggacgtc atgcctgaga ccatgatata ccacaggact 60
tttatatcac tactttactc aaattctatt gcggatagat cattagacgc agtgaagctc 120
ttgaatcaat tagaaaatca ccatgatgaa gatacaatgc tagactccat tctcaccttt 180
cgggcattca tagggtactt attcaaggtt acaagacaac tagtagtgga ttaaattgagc 240
tgctacactt attatatggg tctaagttct atactatctc acgaagggtga acagaatgat 300
gtgcatgtcg aactcggtcg atcataacct ttatgaacat ctttctacac tattatgaag 360
ctagatgtta acaaagattt tgagcaacga agttcctaac taacgtcact 410

<210> 29017
<211> 342
<212> DNA
<213> Glycine max

<400> 29017

ttgaactcgt ttgtaaactg gtcaaaataa tttatataag ctacgtacta aagcgacttt 60
tcaccaccct tcttgctttg tttagatgga agagctttat tgatatccct ctgtttctca 120
atgactcact cggttaattat acctatcata taagaaattg acaccacatg ttttaattaaa 180
ttcacgtaat aagagagaat atattgaaaa gagagagcaa gagagtattt tgatatacca 240
tcattttctca tgcaggaaca aaatttttaa ggtgcaggaa gttatactcc cgtgcatgac 300
actcttctcc tccagagtca agactaataa caatcttgga tt 342

<210> 29018
<211> 347
<212> DNA
<213> Glycine max

<400> 29018

gatccacata ccattctctt tagctatatc tcaccgttct tgagtacgag caagctatga 60

gcttatgata acacctccta ttatgacttc actcaccgcg atgctatcta tgctgttaat 120
gccgaacacc atatctcatg cctacgcacg actcatatgg ctctatatatc cagtgtttaa 180
cctccataact tctagaatgg cctaataact agggctggac gaaagaaatc cctagtctca 240
tctttaccgt gatagacggc ctactactga gcccatgggg tattaatcta cacttggtgct 300
cttgagtaca ctacggcctt gacgtcgctc tctataaccag cctactt 347

<210> 29019
<211> 344
<212> DNA
<213> Glycine max

<400> 29019

agtagttctc gtcacgtata gtataatctt aatgtgatga tatgaagaat aataataatc 60
tatcaatgaa ttacatatta caaattaccc ctctcgattg agtattacca ttccgtgatg 120
aacgttgtct ttgacgcctt gccaaatagt tctcctacgc ttccttcggt caccatatat 180
gtccatgagt agttctgatt tctgcaacaa ctggcttata attgctaaac agcaggacaa 240
tccaatgttg caactgagct aaataagttc gtgtagtacg ctgactgtaa aatgatacca 300
atattatagt tatctgcatt tgcttcagcg agcaaacgga tatg 344

<210> 29020
<211> 283
<212> DNA
<213> Glycine max

<400> 29020

tcgctttcta gcttatectt gaagaattat catctgctta tggcgctgtc cattgcgcga 60
acgagcatca cagtgtggca gcactcaaag gcccgagtaa cagcttggtc aggccgaatc 120
gggggcagtg ggatggacgg ccctatgcta catggaagca ttctagtaca taaggacac 180
agctctgacc gtcgggatct gctagctata tgatgcacaa cccgctctcg tctaccatg 240
tccagcgaca tgctacacg ggctttgcgc tggacatatg caa 283

<210> 29021
<211> 246
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 29021

aaccacagag tggttcctag tagatatagc ttaggcgagt agcgagacct tgtagctggc 60
 atgtgacgtt ataacaacca cacacactct cgatgaatgc tgacccatcc ccgtcatagt 120
 cggtaatga gatactgtga tgtaacacaa cttatgagtt gcgggcgctg aagtgatttg 180
 ccgatccact actcatcagc gatgacgctc gcagaggctg ggcanatgtg aatgaagcgt 240
 gatgat 246

<210> 29022
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29022

gctgaaattg agaatgaggt aaatttgag caaactctca cctcacacaa gtctataaca 60
 tcaatttata cttgctcaaa ctggatttac acctaaaatt ccaccgaatc aaaatgtgac 120
 tcctcaacac ccaattttac cctagaaatg gctctttggt cactttggtc atttgttttt 180
 ctctcttgta cagcccaagc tttctcataa gtcctaaatg acatttcaag ctatgattaa 240
 ctacttttaa ccttcaaatg ccactacatc cagattatgg ctttcaactt tcacaacctc 300
 actatatttc actgataaca ccatattctc actttctaac cctatggtaa ctctaccct 359

<210> 29023
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29023

accccttggt actagcctat ctagattgct gcctgcttcc tctgagactg gactgacgat 60
 caggctttct ggggttcctt gaagatccca cacaccctcc tatgtcgcgc acttgctgat 120
 cataccgatc cctctaccac ctgacaagag gaatgccttc gtttaatccc gataccttgc 180
 acccgcgcca tcctttatca cgccgagtgg tgctctcgca gccacaccat gatgtgtacc 240
 gaccgtacat atttattcct gcttatcaag angaccatcc tcaactctcc aataccacac 300
 atgacctcgg ctccacgaca gatgccgtac ttttgactc atccattgcg ggtctcttca 360

ttctacctat acaga

375

<210> 29024
<211> 310
<212> DNA
<213> Glycine max

<400> 29024

atgacgctct ccagcaacag gtacaatgcc ggatggagga atcatcccaa ccttagatgg 60
tcgaatcctt cacaacagca acagcaacaa cgaccttatt taaaaaatgt tgctggctta 120
agcagaccat actttcctcc accaatccaa cagcaacaac aacaacagca atagcccat 180
aaacaacaga cagttgaggc cactatgcaa ccttcattg aagaacttgt gaggcgaatg 240
actatgccaa acatgtagct tcaactagag accagagcct ccatatatag cttaactaat 300
tagatgggac 310

<210> 29025
<211> 366
<212> DNA
<213> Glycine max

<400> 29025

tgcggtgct tcttttagatg tgaccttcct ttgctgctca tgtagccagc ttgatttacc 60
tgtgcgttgc gcatttatct tcaggagtac tgagcattgc accttcgaa gactaggatt 120
catcatagtg ctgataagag catattatgc agatgatgag ccattgatga gactgatgct 180
agccattgga atggctataa aactacatg agataagga ttggggaata ccgtgaatgt 240
tatatgcata tggaacttag agagaccgtt agctaaacac ttgggagcat cactttgtgt 300
tatgacgtgc gcaatgctca tagaggcgct gtgttatgac tcacatgata gaacgaatga 360
gtatca 366

<210> 29026
<211> 307
<212> DNA
<213> Glycine max

<400> 29026

catttacttt ccgtaccccc ttattacgtg cttcaatcat ttatttaaga catttctctc 60

ctaatacaac ttatcagcca cattcctcta tcatattgat gtctttttatt aattaataac 120
catttgattc acatcccacc catcggaat tccccctcct cattggaaat caaaacacac 180
gtataataat aatatcatca taaaaaacat accttttagt aaaatgaaac gaaaaaaatc 240
aatcgacct tctctctttg ggattttctca ttcttaatca aattgactaa taactaaagt 300
gaaacta 307

<210> 29027
<211> 145
<212> DNA
<213> Glycine max

<400> 29027

acatatgcgt aacattctca caagctttac atcgtgatc tcacgatcct accgagatat 60
ctatttgccg atgcaatata tgccttctaa tactggccac cctgttcggg aaggggaccc 120
tacggactct ggcgagacac ataga 145

<210> 29028
<211> 322
<212> DNA
<213> Glycine max

<400> 29028

cttcataacg gtattgacat tttcaaatgg gttttaagtt tttctaaaag ctatcactct 60
tttgaatggc cttcttgacc agacatggag agtctataat agcaaggcct tgtcttgcat 120
ttcaagcatc ttgaattctt ttccaatcaa tcctttacaa gacatgactc tctttgaaca 180
tattcttctt ctttgtacca acagctttat gaagatatct ggatatacaa accttgaaaa 240
cgtgtgctag tcatgttttc attcaattct ccctatgcac aaaagaattc gacaaggact 300
aaccgcctca attcttttgt gt 322

<210> 29029
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29029

tattgttccc tggtttntg tggtttcatg aaactcgta catgtgagtt catgattgat 60

cogtatgttt aagatacacg gtgctacttg cctgattata ataagataat tgcattgatat 120
aatcgctggg gagacattaa acatatgaaa aacctggggc cgtagcggat attcggatga 180
acttactgga atcgtaggga tcgacttcat ctaactcata cggaacagag cctgccatct 240
gactcattcg ggtcaagatg tataaacgac attttctctc attgacctcg tatgtt 296

<210> 29030
<211> 363
<212> DNA
<213> Glycine max

<400> 29030

agtactaagt atttattacc tatacttaac agaaaatact tataaacacta caaaataacc 60
ataaattgga agagtttgat acgatttaca caagttttat acataaaagt tagtcgtatt 120
caccgactaa caggcacccc atagaactgg cagagactcg tgatcaaggc cgaaaacccc 180
agtgtctctat tggacttttt cgggtccact ggatgtcgaa gaggtgcat cccttgaaat 240
cggtaaatgg catccgagat tagttggggc acatgaatac taacttgagt caagatggcg 300
tagaccagct ggcacttcgg caagggaata ttaaaattat gatcgtggg gaggatgtta 360
ctg 363

<210> 29031
<211> 185
<212> DNA
<213> Glycine max

<400> 29031

ggtataggtg gtagtattga cagttggccg aacacagata ctgcaggttg catgaaattc 60
ataggatata catgatcatt aaaacattga gatcacaccg taacaagaaa cacttaaaat 120
tcgtctgtcc ataatacagt gccagttttt catatcctat gttccaatga atgcatacca 180
catac 185

<210> 29032
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 29032

tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg gatggtcgtt 60
tctccaggag cgacgcgtcc agctcagggg cgacgagtat actgatttcc aggaggaaat 120
agggcgcggy cggtgggcat cactgggttac tcccatggcc aagttcgatc cagaaatagt 180
ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca tgagatcctg 240
ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc tgggatatcc 300
gttggtgttg gaagagggcc aggaatgtga gtatggccag aggaggaacc ggtctgatgg 360

<210> 29033

<211> 296

<212> DNA

<213> Glycine max

<400> 29033

gatgactagg agtgcacgtg aatttgcttc tttgactgaa ggaatgagca cgcttggacg 60
agatacctaa taatttatgt gtaatacggg tctcattcgc cgtgagatga gcgatacatg 120
caggaacaca gaatcaagct tctagctcct tggaagtgcg agattaatat ctgcctgtta 180
tggaatggcg actctgcttt taacagatct agcctagtga actattataa ctgtatgatt 240
aatagacacc ttgtcgatac tgatagggta tcgatactct acaccttatt atgata 296

<210> 29034

<211> 329

<212> DNA

<213> Glycine max

<400> 29034

agaaaccttt atgatgggca ttttgatgta caattacaat agtcattttg atgtttgctg 60
agaatgaatc catacttgat gaaatctatt aatgaagatc ggatcgatat ccatttctaa 120
agtagcatat ctttattaga cttaacactt cttcacaaat ccaagcattt tgaagttgat 180
tacttcagaa agactaagag aaagtttatt tgttggtgtg ttagtgtttt gccagcggt 240
agactgagtg atttacttca atattggatt ttgatgcttc tcatcagtgc tttacatgga 300
caatttcate tttcaacaga attgcatct 329

<210> 29035

<211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29035

ttgctcgttc attcgtgcc a tcagcttgac ctgggatcct catagtctac ctgcagcttg 60
 caagccttat actgtatttc aatgcgcggc ctagttctat agcatatcat tattcatagt 120
 cctctatgta attactgctg acccgtgcac gaggtttgat catcactcga tccacactaa 180
 tcctcagacg tggagggagt tatgacccta ctctctatta taaaccttga gcaataactt 240
 tacataccat atacattatg aatcctttgc ttaaacaatag ctgcgaccct tcaccactca 300
 tgacccatcg tactcttata acccatctgt cagatcacgc aagaattccg cacttccatc 360
 ttcatattcat atcgcatccc tgaacaacca ttgcaacag ttatgctaca ttctatccta 420
 taagcgatgt agctccatgc cgtggataaa ccaccctgcg gcgcn 465

<210> 29036
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 29036

ttcatgaaaa tacaaaaaaa agtccttact acaaagacta cccaaaatgc cctcaaatac 60
 aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag aaggaaaaac 120
 ctattctaata atttacatag ataagcgggc tcatacttag cccatggggc caaaatctac 180
 cctaatagtc atgagaaccc tacggccttc ccttggatct ctggcccaat atactcggag 240
 tcttctatcc aattccctaa cgaggtagga ttacatcact atgcatgcat caactttgaa 300
 taacaccac acggaaatgc tcctgcgtta ctcaaatttc tcaatttcag acacgttgat 360

<210> 29037
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 29037

gcaactcgct cacaccgaac atgatgctgg aaggccaccc aatcaacatt tgtcaactta 60
 tcactctcaa attccccaga catagctatc tggacatttt gagcattaac aatgacttct 120

tgtcacaccc agactggcta ctattacctt catgacattt acacctttga tgaacatact 180
cta 183

<210> 29038
<211> 348
<212> DNA
<213> Glycine max

<400> 29038

aaagtgccta atgaatcctc ccgtgcttat gccaccagta cctggaaggc ctctcatttt 60
gtacatgaca atcttggacg agtcgatggg gtgtatgctg gggcaacatg acgaatccgg 120
gaagaaagag cgcgctgttt actacctaag taagaagtgc acgacctgtg agatgaatta 180
ttccttgctc gaaaaaacgt gttgtgcttt agtatgggca tcccatcgcc taaggcagta 240
catgctgagc catactacct agttgatatc caaaatggac ccgggttaagt acatctttga 300
aaagccagct ctacggggac gaatcgcccg gtggcaagtc ctgctatc 348

<210> 29039
<211> 272
<212> DNA
<213> Glycine max

<400> 29039

gtactataat gacttatcgg cgcacattaa ttgtatcata tacgatagtc tatatattaa 60
tatatacata tatgatatat catgccatta gatatgatga tttaaactct atctaattac 120
atatcatcta ccacatgttt agttagattg acgtattaca tagagaatgt gttgataaga 180
tatagcatga tagtatctcg atataccatc attactcatg catgatcgaa attgatacgt 240
gcatgaatta ttctcctgtc ttgactatct tc 272

<210> 29040
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29040

tcaaaggtgc tattttggga agacgggtgt aaggatgatg gggtttcggt gatggaaaag 60

taccaagct tgtaccacat ttctcaatag caacatcaat atatccacga gcaaggggcg 120
 acatcaggta caggttgga atgacagttc cagtggagat tattttttgg aggggtgaaat 180
 agacatgact gcaaatttat gaaggatata gaaggtctga tcgtccaact gcagcgacta 240
 gacacctaga attgggagcg agattcaagt gggggatata caattgggaa tgcttatatg 300
 atgcttgata gggattcgac aaatganaat cacgatggag agtttactac attatggaag 360
 ttaa 364

<210> 29041
 <211> 193
 <212> DNA
 <213> Glycine max

<400> 29041
 ctgtaagtag gcggtgacga gaagggatga aatgatcatc cctcctgaat gtgatgaaat 60
 cactagtaat tatagactat aattgaatcc ctgattacaa tccacaccga tgcgctaccg 120
 attcacatcc gtgggtgaac gcgcgaagat tcgccaccat tcatagtctg cctaccctcg 180
 ctctttgcac ctt 193

<210> 29042
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 29042
 gattgcctat ataggttgat ttagcataaa attgcctata tatatatata ttattgagaa 60
 ttaatagcct ctgatatgta aacatttctt ttcctgccg ttgttcaggg cgcgattgag 120
 acagcaacat tagatactcg cattaaagtg tctaattccag aggatccaga gccatcaatg 180
 aaactttatg tggaaaacca ggcagaccct gcaatgcgat tagtctctga gatgatgata 240
 ctttgcggtg aagctgttgc cacatttggg tctcggaatg acattccttt accatacagg 300
 ggacagcccc aatcagatat gaatgtttct gaa 333

<210> 29043
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29043

ttgctgaaac ccgttactca ctcatatcatg atttcagatt ctcgtgagga tacgtgagga 60
 gactcgttga ttcgcncgaa cttcattaac gcctgcagga tacatctttg actatctttgt 120
 caacgcatag atggattgcc gcagtttgcc gaaagactct acaacgcatt ggctgactcc 180
 agagcacata ctgtctggag cttgagctcc ataacgcatt ggtcgactcg actacgcact 240
 tgcagactca tatctgctga cttgactaca ca 272

<210> 29044
 <211> 125
 <212> DNA
 <213> Glycine max

<400> 29044

tccccagcct tcccttgatg aacttgcatg gaaaatgact attcggaaca tgcactgtca 60
 acaagagacc tcagccttca ttcttagctt aattaatcct atgggacact tgtctgcaca 120
 gtcaa 125

<210> 29045
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 29045

attcattaac gcattcattg agcattcgtg gcccatctcg acgcgcgcta actatctacc 60
 tatatattat atcgccgaac atctttctta gacacatacc cactaatcat tacacatgta 120
 gaaaccgtta cttcacgtga taatgaatcc cgcccgatcg gtcacgcca aaccacattg 180
 tagatcatta tacaggcttc acaatgatgt gcccatgaa accctacctt ttagtgtatt 240
 gacgtgtgac aacttaatca gacggggcat tatgtgatac ctcttacgat gaatatctga 300
 ctatatgcat tactga 316

<210> 29046
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 29046

cctctatagc acacactgcg ggcattgcatt ctctatgttt ctctgattaa ttcggcctgt 60
 gtagctctgc attgcagtgc cgagtttgcc caatgggttg gacgtgctcc tcagcgtag 120
 tgatgatctt gaatgggtctt cttgaccatg acctggagac tccattacaa caacgatcat 180
 ctttgcatth catgcctgct gacatthtga tgatggagct ctttacgcat gcttacattc 240
 tttgagcgac cgacctattc tgtgcaccat catactgtat gaagtgcac tggaatgaca 300
 aatccttacc aaccaccctt agtcatctta tctacatth ctgcctttgc ccatgggact 360
 actccaa 367

<210> 29047
 <211> 205
 <212> DNA
 <213> Glycine max

<400> 29047

ccatcacacc ttaaccgagt agctgtgact atcttcatca cattgactat cccatatgga 60
 cgactcatcc acatcctaga ctgactactc ttctaaacac ctgtccatac aacaatctat 120
 acctctatat gtttgtgaca tcaccagacc atactttctc ttgtctaaac cagctactca 180
 aacttcaact tgagtthtcc caaat 205

<210> 29048
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 29048

ctcttgcgac tccgatggaa gtctgttht atgtcccatc atcgataatc cgacatgatg 60
 tgccthccgt cagccagaga aagtactctt gtctgatgct cagctgacaa cgtgaccgta 120
 cttgatgaaa tctatgattg agtaactggt cgtagacca ttcttctat gcagctcgcc 180
 attagactta tgactthtct acttctgcac atctagtac tgagatcact ttagatgcag 240
 taatagaagg atcatcatgc cttgtgcact cgtatgagcc agcgtcatac gcgccgattg 300
 acttcaatca tgtatgctga tact 324

<210> 29049
 <211> 467

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29049

nttgattoga tgacctcgac aggaccatat cagctctcga cctcgcgatc ctatgagccg 60
accgacagct gcacgctttt ctattttctc tccgcagtac cacactgctg gctatacgat 120
cgcatatctc cagcatcgct tacacgccgt ccaaggatga gtccatactt caatagcgag 180
gcggtgctcat taaggaccac tagtatactg atacctacct atgagaatcg gcgaccgcag 240
agggcatctc ttggaactac acatggccaa cttcgatcca tgaacagtcc ttgagctaca 300
tgccttagca ttgccctccc tatatggcat gccctaccta agactctaga gactgggtcg 360
atgatacctc tgaatatcga tactatcgtg ccctactgaa tcttcgnaaa catgtgatac 420
gtgacgaatg gaacatgccc tagatgttcg gccacagttc atccgac 467

<210> 29050
<211> 97
<212> DNA
<213> Glycine max

<400> 29050

attgaagtat gagcacttct gcttgaaaag tgaccatgct agtcccctat tactcactat 60
catctgaact tgtgtccaga gctagttcta ctttacc 97

<210> 29051
<211> 309
<212> DNA
<213> Glycine max

<400> 29051

acgtgataca tgcattcggt agatataggc tactgataat aggaatgcct atctattgtc 60
gacttaacat aaatgcgcct atgaagatat atattattga tacttaactg cccatgcttg 120
cacctctgct gactctcatg ccgttgatca tgacgcgcat gagacgctaa gcctcaagac 180
tcattatcta tattctaate cacacgatgc atacccatct gcgactctat atgtggaagc 240
ctacacccac cctgctttgc gatgagccgc taagatgatg atacttcgcc gtgaaggtgt 300
agacacatt 309

<210> 29052
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29052

nctggangtt ggtagactca tttctgagac acatatacga gtctctcgaa ccttggtgat 60
 ctctctgaga gctctacact gcgaaggcat gcaaaactct agtagtgta gacccatta 120
 ccagtcacta gaatataccta ctagcaactc tgacagcagt atgacgagtt gttaagacaa 180
 tggaccttca tccatatacc gggtcatgat caacgtctta ccttgactgt gactcgatgg 240
 caaagctcat ttacatatga agctatgtag aatatctttg atcatgataa ctattcatct 300
 tagactacaa gtgttgatga aagtgaccac tagaacctcg tgatgtgctc ttagtgcaag 360
 tcctatacat tattatgtat ataagctatc tttctatata ctatcgacca attggacact 420
 gatcaaactc attccttctt gcacgagatg tagtgatcat gtcgctatga tatgaaacct 480
 agccttgtaa tataatcacc tgggtgtttt ctaactatc 519

<210> 29053
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 29053

ctcctcgaca aaatttgaga tcatgcttaa ataagtgact actactcgag cttagcccg 60
 ttgccctcac tttcaacggt ttaacgctct tctacgagaa tgggcttaac acatggtctt 120
 ctcgattgac aaacgtactg taataggtag acatatacagg atgctcctac tttgaccatg 180
 catgcacaat ttatccttat gctcaagaca tccttacgct cttctgttga atgtctggct 240
 caatgaactg ggagtcttgt atccaagacc gtctcgatga gcgagtacat ctctacgctt 300
 gcat 304

<210> 29054
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 29054

tctgacctgg gaggctatca gtcagctgct gcatgcaagc ttgtcactat gccataggac 60
 tgatcagtaa atgccttatg tatcctatcg agcttatgcc tccacggcct gattgggtcta 120
 tcattatgta catgacgac ttggacgagt caatgggtgtg aatgcagtcg tctcatgacg 180
 attactggca gacagatggc gctgcacact atctatgtta aacgtacgat atctgtgaca 240
 ccaatgactc cttgctcgca tcaacagggt cagcttgaat atgggctgcc catcccttat 300
 agcaattcac tcatgaccat actacctatg 330

<210> 29055
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 29055

ctgcatgcat gcaggctttg tttggcaggt agaagccctc cggagaagcg ctccctttccg 60
 tttctctgag tgactctatc tgactctatt tgctggcatt gcatgatcca caggacctgc 120
 ttgctccctt ggacattgtg ggagacgcct tagattgtga tgcgacattg atgattgccca 180
 tttactactg acccatctta tgaacgttct actgcccttg attcgtactc caccatgcta 240
 cggagatcga attcagactc ctgcattggc ggaactgctc tgattgactt cgcaaacagc 300
 gccaggctgg tgagagatca tgtgctcgga agactcccat gtgagggat 349

<210> 29056
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29056

gcccttgatt tcgtgccttg ctgcacgagc aaatagagct ctgacctggc gatgcgctat 60
 agctgacctg caagcatgtt ggcttgtag ctntagcgat gaccttactc tccaagcatt 120
 gatggcgtag tagcttctcc catcatatct atactcaatg agaatgggtcc agcagcgta 180
 acgcgcacaa taatactaca gactgaactc ttgtagaaaa cactttaacc gaatcactgt 240
 ttatcatata cggagctcag cacctccagc ggctagagac tgtgacgcac cgccactgcc 300
 gttacagtac ttacatgtca caccctatcc ttgcttaatt caccttcttg catactcgag 360

gcagctatga ggcatcatta ggtgctcata gtgcacagag tgagcattgc ttatacctat 420
atctagctca cctctctgat gactcttgac tatatacaca gtaggggggcc acttgctact 480
gctcgatgaa tacatttctg cttt 504

<210> 29057
<211> 301
<212> DNA
<213> Glycine max

<400> 29057

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aacctctttg accttggtt aatgccgaac agcatcttat atgacctgct ctttgacgtg 120
actactctgt tacacaagtg gcctcact tcttaatgaa aggagttgaa gttggataca 180
ctctcatatg cagcactaac acatatctct ctgtctgatt tacattgctg ctttgatact 240
agaactactg gtaaaacaac tcgaaatcca tcgtttatgt gtggccatgc gcaataataa 300
a 301

<210> 29058
<211> 342
<212> DNA
<213> Glycine max

<400> 29058

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ttcccacggg gtgctgtttt tgcacgtacc cagcatgcaa gtgcgaattg ggagtgacaa 120
cttcatgcat ggctgacatg tggcgaacgc tggagggacg cgccagtact gttggcgact 180
tcatgcatgg ctgacacgtg gcgaacggtg gagggacg ccaacctcat tggcgatttc 240
agcacggtga cgccccagtg ctgttgagc tttgtgctg ctgtgtaaag tcccgtcaag 300
cagtgtatca gtatcctagg tgcagctgca gaagctagct ct 342

<210> 29059
<211> 410
<212> DNA
<213> Glycine max

<400> 29059

tgcgggctgcg gctttatgat tgaogcactc cctcgtacca tggatcggat ggcgagacta 60
 cagatgccac tctacagcat ccgaactcctt atcatcagat gatgagcttt cgtcaggacc 120
 acgaatccat ccactcttat ctccgatagg ctggacttga tgctcctacc ctgccccct 180
 cgcaacctta gaagctgcac gctctctacc aaagaattat gcatagtacg actactccag 240
 gatggccgca ttagtcagcc tttgcttaac aacattggaa gcatcttcat gttcatctcc 300
 ctatacgtca cctagccctc tatgagagca ctctattact aggcgctgtc attgtgctac 360
 atgatggact aattatgtac acgcactaga tctctcatga tatctgctca 410

<210> 29060
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29060

aaagagagca cgaattctag actaagccag atggacacat cgagatatgg acagaaagcc 60
 gtgggactag tgccttctct taagtaagat gggggcttag cgttctctgta caactgtatc 120
 catatagact gttatcccc ataccacagc atcggagagg gctctaattgc ttaacacaat 180
 gagcctgaca cttagtact gttctccac acgttccaga cgcatagtgc ctcgttccct 240
 aagctcagat caagtgagag ccaggacta gcgcaatata gcctgagtgg gccggctctc 300
 atgcctacgt ctaattccac tgtatacaac gtgagatcgc aacgcaacat tgtgccatgt 360
 gagctcttcg gtcacacagc gtgattcn 388

<210> 29061
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 29061

ggccttcagc tctgacctgg gatcctctaa gatcgcacca tggggcagtg cctcttgatg 60
 tacacctcta gtgactatgg catttcttac ggtactatgc tgaccacaga gtgatgcctg 120
 catatctgtc acgtgggtga cgacaccttg aggactgtct gcgagggctt ctgactggc 180
 accatccatg attcttccct acatatcact gacttcttca taaaagata gcctacgacg 240
 ctgctatgca agctaactgc ggacctactg ccacatagga tcttagatct ctccccatag 300

tcgctcgtgc tgtctccgct gagctgtgta ttacgtgaga tatecttact aaagccgctg 360
gcoctgcaagc acggtacatg gtttctcaaa ttactcgctt aaggacgtac atactatgga 420
tggacc 426

<210> 29062
<211> 217
<212> DNA
<213> Glycine max

<400> 29062

tcatgcatac cttatatggt ccagctcttc acatcagctt cttcaaggac agacttatta 60
tcataacgcg ccggccggga tccatatcac attacatccc cattttaacc gatgcgtgat 120
caataggaga cgcccgaaca gctgcaagcc gacgtggccg ctctgaaaga tcacatggac 180
taactggtga gggccatgac tatgctgaac ctgctca 217

<210> 29063
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29063

ntgactcgtg ttgatgcgtt gcttctacgg cattagagcc tgacctgtga ggctcagagt 60
ggaacgccgc atgctatctt taaagttgac ctagtatcgt ctgagagacc atcgaacctc 120
tagacattac antgtgtggg agacatgact agcatatgct ggagtatcag ataacccatg 180
accacgtggg gggccgagta cgtgtctctc tcgacttggc cttgactacc atcagcgaag 240
taattgacta ctgtgagtgt ctgatcgaac cgatgcatcc tgatggattc ctaattggtg 300
tgaagaacaa tctcccttac tataaacatt atctacgcga atacttgggc gtactcatcc 360
gcgactctgt gcacgtgggt gatggctaga cgctattact attggctcta tgagatgaca 420
gcttgctgtg cgctccctcg tcatcatacg cactcgtaac tatctcgtg 469

<210> 29064
<211> 179
<212> DNA
<213> Glycine max

<400> 29064

tgcctcacat tatcttgatg acgcaacagc taagatgaga atctaggaga tttatccatg 60
agcagtgatg aacgcactta tcttgacact cttgcgtaa cagtatctag ggaggcgatg 120
gtccggctct ggagtcattc cctcgataca acagccacac agtgattcca aactatgct 179

<210> 29065

<211> 237

<212> DNA

<213> Glycine max

<400> 29065

atgctttag cacaaacgaa cgactgtaac catacagtcg gacgaacgag cgactaccgt 60
cggatataga catgcacgga attatatatc taagctgata tcataggaca acgacaataa 120
ctgttatctg cgaagcccaa ttgattcccg ccctatatca agacgctcgc agtttagaac 180
cgaagctgga ctaaaactaa catacgattg atatgtaatt ggatgtccga ttggctg 237

<210> 29066

<211> 224

<212> DNA

<213> Glycine max

<400> 29066

gaatgctcaa acgattctac cacggacaca tcatacatcg agtcttcacg atttcaacta 60
ctggagctta tctacactgt tcttggtata taactaaata catattactc gtgcttaact 120
gatgttgtct caccacacgt ctcatagct tgaacctgtg cacacttctc tcatatagaa 180
caccgtatct tctttctcat caatatccaa cagtactcga acgt 224

<210> 29067

<211> 131

<212> DNA

<213> Glycine max

<400> 29067

gccaacacgg tcttggataa ctagctctat atacgcctct cgagttactt ctaatggatg 60
cctgacgctc tctaccagct catgctgac tctacacatc atctttcatc gaagatcctg 120
tgccccact c 131

<210> 29068
 <211> 221
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29068

acccgttctt ggaggatgat atgagaaggc cagtgatgga caagttgcta ttggggccga 60
 cacttctact ctgctcgcgt cttgtcacgc ctttatgtga ctcttttccc cgaacgagac 120
 gaaacttccc ggatgtgggt accatactcg tctattggcc ctgccgtgac ggtacctgac 180
 ggacttacct gcttatccat ntaatgatgc tgtagagtgc a 221

<210> 29069
 <211> 233
 <212> DNA
 <213> Glycine max
 <400> 29069

tacgaaatac atcatctcac gttcataaga gggagcctct gagagttcca cttcatagt 60
 ctgcgactct ctaccttcag ggactagtgg gatgtactct gactcatgca cgttgtgttg 120
 cgacgggaca tacgctggtc gtgcgggctt gccttatgac gatatcaaag tgcctgattc 180
 cttgaacctg atgatcaccg atgcattaag agttgtctat agcctttcta tga 233

<210> 29070
 <211> 311
 <212> DNA
 <213> Glycine max
 <400> 29070

atatataatg cgccagaatc aactagcgt tggctgagct atggccatag gaatgatttg 60
 agagcctcct gagctcaact ttgagcggat cgatattgaa cgtgcgatta tctgactacc 120
 gtgtgactag ctatgaacat cggattgact tgaggggttc cgtatttcga cttccagcgt 180
 gacgagatat gatgctggca gaatatcacg acctttcggg ggttatgacc ataggaattg 240
 atctagagcg cgctgagtcg gacttcagcg tgacgattat gatgcgcgga gaatctgact 300
 accctgcgat g 311

<210> 29071
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 29071

gctcatacat acgactataa tgttatggat ggatgaatga tcgatgacgg tcaaaaatcc 60
 atacgctgcg acttgatatg attacagtac tcaactcatac atacgaccat atcggtattg 120
 tcggatgaat gagcttatac cttcatacat caatacccat cgtctcgata gattacgaga 180
 ctcaactcata catacgacta taactgttat agtcggatga atgagctgat agcttcataa 240
 ttcaatatga accgactcga ttgattacgg tactcaactca tacatacg 288

<210> 29072
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29072

ttcttctgag taccacacag ctggcgacat acatagaatg ggcgaaaccag aactagcgga 60
 gtgcaaagt cactattcta tgtctctgac aacaaattta taccgaaatg tgtcgtgttg 120
 atccttatcc actacatggg tgcattgactc cgtagggacg tgcgatacat caagggcgct 180
 taccggagga cgcgacgcgt ggccctctgt gtatgcgtct ctgcgggctg cgcatacacc 240
 gaaggactcg ccctagactc actcgctact gtatgcgacc tgcgcctacg cccacctcac 300
 taatacaaca ccgaggcggg acgattccag catctttgtg cttgggtgga agaatgcgtt 360
 gaataacagc actacagtta ccttccacan naattatgtc actatggat 409

<210> 29073
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 29073

accttccttt agacgggagg gcaactgaagc cacaacagat ggacccccga atcactttaa 60
 gactgtacaa cagcgagata cagtcgatat atatggctct ctgaagactg atgggtcattt 120
 gcttatctct ctagcacagg cgaagcacct tcatatgatg taattgactt ttcaagctca 180

tagagactca ctatagcgtc cgacctccac acaatct

217

<210> 29074

<211> 168

<212> DNA

<213> Glycine max

<400> 29074

tattgtagac tattactata gccgtctcta cataacattt atcacactca ccattcccct 60

tatgcagaaa catttgatac taattgacgc attttatcca tcacttgag ggcgctcgtc 120

caaatatcaa gcgcccgcata aagctagcaa agactcgtga tccatggc 168

<210> 29075

<211> 265

<212> DNA

<213> Glycine max

<400> 29075

ttcttgacag ataaccacca tcatgcgtga ttgctatgat aaagttcgtg gcgataaatg 60

aggtaccata tcgatgctct agactacata gacctacatg tacagacgga ctgctctgta 120

acctcatcag ggagaggtca ttcgtttatg acgattcacc cacctgctct attcacttct 180

agcctacctg attacgtggc gctaaatccg atcataccga tgaccatagt gcacataact 240

aataggagaa gcacctgggc taatg 265

<210> 29076

<211> 108

<212> DNA

<213> Glycine max

<400> 29076

actttcttgt tcctttgaaa accacacctg atgcttgaga tcaaactgtg tccatctgac 60

tggtccttat cctctctctg aagctaaagc tcgcttgctc tgccccac 108

<210> 29077

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29077

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 gtgattgggc cctttcctct ctctgaagct taagctcgct gttactgccc cacagagccc 120
 ctcggaattt ggtccggcca tgttcttccc tatgggcctt tttggtctct tgttccaagg 180
 cctttgtggg ggctatatatt atgtctctca gttcggcatt ctcttttcag atcttaagag 240
 ctgctgattt gaactcttct ctgactgttt gggctgtctc caagtctgcc ctgatggcct 300
 acattctttt cgccttcctt cgagcttaaa ctacaccccc ttaatg 346

<210> 29078
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 29078

agcttttaca ttctatttcg agcatctcga tatgttacgg gactgaatca gacatccgag 60
 ccaccagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttt aagcatctcg 120
 atacgtgatg ggactgaatc agacattcga gtaaaaagtt attgtcgttt gaat 174

<210> 29079
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 29079

agcttttatc atgggttatg gaccatttca agtgcttgaa agaatcaatg acaatgctta 60
 caaagttgag ctgcccggtg agtataatgt tagctccacc ttcaatgtct ctgatttatc 120
 tctttttgat gcaaattggag aatccgattg atgacaaatc cttctcaaga gggagagaat 180
 gatgaggaca tgaccaagag caatggcaag gatccacttg aatgacttgg aggacctatt 240
 gatgatgaca tgaccaagag caagggcaag gatccactgg aaggacttgg aggacctatg 300
 ac 302

<210> 29080
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29080

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tacttctgtt ttggtaagtc attagctcaa tttttgactc ctataattta gagaatgatg 120
catcattttc tcaattaaac attttcaatg attatcttta tcttatttag atatacatgt 180
ttatgctatt aaaaaacatc tgaatttttt agattatgca gagaaaatag gaagggagaa 240
gaagagagaa agatgataca caatagatta acttaaaggc tgtaactggt cgtccatctt 300
agaatcttac aatccgtcaa ttaacaaaag caaatagaac aatttttttt attaacgggt 360
tgttntattt tatactataa agaatatcaa ataaaagaat 400

<210> 29081

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29081

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tttagtagaa caagtttaga atcctgtgat ttaacaagac aaaatgatga gtgaaacttt 120
acctaaacta gataactcac tcgagtcaat ttggaattaa cataagtaaa gtacactcct 180
aacaacaaca ataataaata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tatatcttaa tttttaaata ttaaagtttg aaattgtgtt tatttcattt 300
tacaaaactc gattgataat gtttattata ttaattattt atagactata aaaatctctc 360
attaaaatca gatatatattg attgacaaat aattagaaga aagagagata ttaatgacaa 420
tgagt 425

<210> 29082

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29082

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ccaagccctt actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120

tgaggaagga gatacctatc ttggacccct gctccacctc aaagatccgt ccccccata 180
 actaccccaa ccgaacatag tccgcatat cccggcttca cccacacctg taaaagaatc 240
 tgctcccttc gcagatgata acgggaagat ggaggcgctn gaagagaggt taagagcagt 300
 cg 302

<210> 29083
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29083

tatgttatac aacaaagata ggagagtcag caaaatactt tcttcnattt aatctgccat 60
 agctactcag tttgccaatc tccctcaa at gctactacaa aacctacaac aagctcagca 120
 aaacatgttg ggtgttgtca tccaaccacc tcccattatc caacaacaac caactccaag 180
 tatattgctt gcacctgttg aaggaaaacc atcatcacc acatcaacac caccagttca 240
 gccaccacca ccaccaccga ccaatcaaga gtgacaatga tgtcccatca t 291

<210> 29084
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 29084

tttcttggtt ctacacgtat gtatcagctc caatagatct ttcgctctcc atgctctgct 60
 tgttgagaaa gaaaatcggg gttgcttacc aaggagacat cctttacaca cttcattggt 120
 ctcccttatg cttggaagat ctctcatcat gttcttctca tgtaacaact tcaaggcatg 180
 tgtgttgaag tggccaaatc ttogatgcca tagccatgaa tcatcaactt gtaccttcat 240
 gccaatgggt ggtgcatatt taaattttaga gggaagcttc tattgctctt attcatcttt 300
 acttgggcta tctcagacct ttctatttgt tgcctaagat ttgcatacac ctccctttaa 360
 gtgaagcgtg tcgcctctct caatcatt 388

<210> 29085
 <211> 214
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29085

ttgcttttat gttcatcttc ttctctttca ttctccattt tcatgattag gaaggactca 60
cccttcaagg tcaaccaca ctattttctt tgcttcattg agtcaacaaa gaggtaagga 120
aggagtattt catttcttac gaccggtact atgttgctag gcactagaac ttcatctata 180
tggngatttt tcatgggtta caaaaaattc ttgt 214

<210> 29086
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29086

ngtaggatta tggggtacct atcacatgta ggactttggt gcggtcggtc gatggtgcac 60
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccctgtt gccaccttc 120
aactgagctc acgtactccc acgtagccca tatctcatt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcaa attaatacaa cattcaaaca gcacatgcta 240
tcacagcaaa gcaaaacagc gcaaaggcag aaaactctgc ccaaaacacc aaccaaata 300
cagcttttct cacttaaaga cccagtaac aattccttgc ttccggttca ttaaccgttg 360
gatcgactcg aaaatttact ggaagtctct agtacataag cctacatttt gaccgttggg 420
atctact 427

<210> 29087
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29087

tttcttttat atggaataac aacataaata caaggctcgtg caccaacaat gaataatgga 60
ctcacacggt ttctgtgtat ctataccagc agcacaata cagtttaacc atgataccca 120
accatcatct gctgatgacc cttactgct atattactaa atgtagagca tatatgcaag 180
ctatacaaaa aagcctaccc ataccatcta ctataacatt cacgtaagac ctgtatcatc 240

atattaatcg atctcctttc cttaacaaag agatcgaatc aatcataacg ttatacaata 300
 canacacgcc ctgggattca tctcccatc acaatacgag aattttcttc ctctcccttt 360
 cgcattaatc actgcccaga ctctatgttt tgcc 394

<210> 29088
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29088

ccgcctccta tnatcttgta gcaccnacgc gacacnanag aaacncaagc gggggaacca 60
 cnacaacaaa cacngngggg nncnntgtg gtttcaagac cancacacag caagagggag 120
 cagccggcna gggacncca ccgccagcga cgagaaaccn gccgtaacca accaaccgcg 180
 gatagacca ggcggggncn ganatatcca ccaacggata ccctcacctc accatggctc 240
 acacgaagaa aacaaatnac gcttttgacg caaaacacaa tgccttcccc agttttggta 300
 tagaaagatt ataaccgtac ttctcaaaa accaatggcc ctgaacaagc ccaccacgct 360
 tcttttcgca aatcaaaaaa gccacgacaa tagaaggta gttccggccc ccccgacaaa 420
 tacctgctaa ccccgaagag gcgaaaacaa acagaacaca ccagcgcg 468

<210> 29089
 <211> 343
 <212> DNA
 <213> Glycine max
 <400> 29089

ttgcttcttc tttattcacg aagcataata acaagaaaac tacatgatta gtttcccctt 60
 gccccccact ggatatatac tatgccaaga cataaatagc tcaagtcaa tttccatata 120
 cttgatattg ggtcaggaac caaggacatg tgtgcacaat aagattaaga aaatgacatt 180
 gaaacggtgg atcgtgttcg tgtgctgtta acatttcata ataatgtgac ggtagcaata 240
 atgacaatga gtcgagaatt tgacagagca tcgcatgaac attcaaatta gcatatgtac 300
 tgtttgactg cttatgaatc ctcataaaaa cagttttctg acc 343

<210> 29090
 <211> 303

<212> DNA
<213> Glycine max

<400> 29090

gagccttctg ggcattggta ggagagggta caagaaccgg acacatcagc tgaaacaaaa 60
gagaacaaat atctgagggc tctgaaactt tctaaaataa caaagagttc caagaatctc 120
gaagaaaaca tcaaactctga ctctgaggta ttgacagcgt gccaattttc atcaaaagaa 180
caaagcaaac aaatttcaat acccaaactt ggaatagacc tgactgcaaa caacaacagg 240
taattctttc aatctttcaa gatagagaac ctccatgtta cttaaaataa gactgcgaat 300
att 303

<210> 29091
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29091

ttgcttttca ttcaacttcg agcgtctcgn tatattatac gactcaatta gacatccgag 60
tataaagtta ttgtcgtttg aattttctca gagcttcaac attcaatttc gagcgtctca 120
atatatgacg ggactcaatc acacatccga gtaaaaagat attgtcgtct taataggctc 180
agagcttcta cattcaattt cgagcgtttc gatatatgac gggactcaat caggcatccg 240
tgtaaaaagt tattgtcggt tgagttggct cagagcttca acattcaatt tcaagcgtct 300
cgatatatga cgggactcaa tcaggcatcc gtgtaaaaag ttattgtcgt ttgaatcggc 360
tgagagcttc aacattcaat ttcagcgtct c 391

<210> 29092
<211> 230
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29092

aacacgctcg aaagggaaag gcgaagcccc gagcaaannc aaacgacaan anannnncaa 60
ggggagggcn aanggagncc cagaacacaa cgagacgcta gaaggngaag gcngaagcgn 120
ngagcaaagg caaacgacaa gaacggnnca ctcggaagnc nganagagcc ccgnaacaaa 180

aggagacggn cgaaacngaa cggggaagct cngagcaaan ncaaacgaca 230

<210> 29093
 <211> 209
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29093

agagcaancc gaaagaaagc cagaaaggaa aacaaaagnc acgaaccca ccaagaagaa 60
 aaagaaacnc gagccaacac ccacncgaac ccccgangcg ggccccacag aaaccccacc 120
 gaacggagna agggcccgaac acggcancga aaaagaaaac cccgagcgag aacccgaaga 180
 ccncggcacn gagnaacacc gagaagaca 209

<210> 29094
 <211> 293
 <212> DNA
 <213> Glycine max
 <400> 29094

ttcttttcac ccttaccgac aatggaaaaa gcttttaatg gaagtcaaga gcatgaaagt 60
 gcactgatac cattaactag tcaatatggt cttgagcagg ttgaagacat ctatactata 120
 tttggaaaga cccataagaa ggataaaaag actaaaactt gcatatggaa gatgaggccg 180
 atattgatcg atcttgcata ttggttcgat ctagacgtca gacattgtat caatgttata 240
 catgtggaga caaatgtgtg tggtagtgtt attgccacac tccttaacat tca 293

<210> 29095
 <211> 143
 <212> DNA
 <213> Glycine max
 <400> 29095

acggacctga cttctatggc cccccataa tctaagtttt agattaaaca gaggaaagcg 60
 ccccgaaag gacctggaca cccgccacc cactcggag acatcgggcc caagtcagcc 120
 ggcgaaaccc ccgaaaggga ggc 143

<210> 29096

<211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29096

agcttgtatt attactacta tcgcattgcc ccacaattca ccacagaaat agaacaaaga 60
 tttatccaca caggttcaat gaatagtaaa tagctgctgt cttacccgcg ggctattatt 120
 tcctcctttc caattcattt ccatttatta aatttaaatt gggaatttgg atctcgggct 180
 tccaagtgca tctgtattac tgtataaaat ttgggatgat aatctatgat ataaatatta 240
 gtcagtcata attgtcacag atctaattaa acctattaac tttgcattaa ggcaactttc 300
 tatttatttg gtttgaagat tttaaaccta tgcttcttcc attgcaaggt cctaatttca 360
 ttntatccaa aacaaaagtg agaaaatcat tggttcttta atttctccaa ata 413

<210> 29097
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29097

tactaagctt gatccacatg gcaccgtctt cctgatcgcc ctaattttct tccaccaaca 60
 agattattag tagcaaccaa catgacattc ttttcagctt ctatggcccc aaatggcgcc 120
 tccttcggcg taacctcact tcaagaatcc ttcaccctc acaagttaag tcctattcac 180
 atgctcctgc aacgccttag atgggttattt ggttgctact tatgcctctg tgaatttcct 240
 ggtagctgag atcgggaggg acccaacagc ttgggatgat cctttggcct ttaagccaga 300
 gaggttcatg aacaatggtg aacaaaatgg aggcacaaat tttgacataa tgggaagtaa 360
 agagatcaag atgatgccgt ttggggcagg gaggagaatg tgtcctggct atgctttgng 420
 aaatttgcac ttagag 436

<210> 29098
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29098

agctttaatt nttttaaaat taatttaaaa aataaattaa ttacaagagg gaccaaacta 60
 caaaagcttc aaatttatta acttatcatg atgtggaatc aatttttaag gtgggtgtaa 120
 tctattggtc tacataaatc atggttccaa aaccctttaa aatgtaaagg tttcattaga 180
 aaccacctaa aaatattggg taactctttg atgctaagga aacttatctc aagattccaa 240
 tgactgacca aataaatttt attcattcca agaaaacatg attcccagga ttcattgattt 300
 ctagcaatca tgatttctaa acatgaaaaa acttattccc caccaaagt cccataatat 360
 gtatgatcaa caatttcatt accataaatt aattaattgt atttagtat 409

<210> 29099
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29099

tgaggagaca ttgaatcaat tcatacagat gtccatgtcc aatcnatgag cacaaagtca 60
 tcaatcaaga acttggagat acaagtggga caattagcca aataaatggc taaaagaccc 120
 attagcagct ttagagccaa cactgagata aagctcaaag aggagtgcaa ggtaattttc 180
 actatgaggg aaactgcaga gaaggaaagg agaattaagg aggatatgcg tgatgaggaa 240
 ggagaaaaaa agaagaggga ggaaaagata agagtaagga gagtggtaat aaggtctcaa 300
 ccactaagac caagaccaag agccagttag ctcatgaggc cagaagagag ataccaccag 360
 cctcatcaaa aaaaggcacc ataccttcta gtgccatcaa agaaggacaa ggaacgctac 420
 ttcaagtag 429

<210> 29100
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 29100

agcttgataa aattttaaga aaataagtac tagctcaaat ggtaaatagt ttctataatt 60
 ttgaaaagta taatgtacat taacattagt gacaaaatag taaatggagt agttataccc 120
 gatccaagaa atatttagca acattgggaa gattatgtaa ttcctttttt gtcttgtagt 180

tttcttgaac agcaggatct ttccagatct catctaccat aggagcatat tcacgcgttg 240
cagcagggaa gaaggcctcc aaatctccga tggccataat atccagtaat cagtcagaaa 300
agtgccttgaa tctttgatta tagagtaaac actcaccttg ttttcgtcag ctgctgtctc 360
tgctaaatct attatacaat tagattcatt cacataactc tagcctt 407

<210> 29101
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29101

tctaaactnt gtacaagaat gaagctctga taccacttgt tagattagtt gcctcagata 60
tcttaagaag ggggttgaat taagatatca caaactatct cctaattaaa aattctaatt 120
tgattttaac ccaaactcta agattccttt taaaatgaat tcttaaataa ttattcaaat 180
taaacttact gaatagaagc aataagcaat aataaataaa agagttaaag ggaagagaaa 240
gtgcaaactc agttttatac tagttcggcc acacccttgt gcatacgtcc agtcccatg 300
caaccgcgtt gagagtcca ctcaatcgca aaaacccttt acaagttctg aaccacacaa 360
ggacaaccct tcctttgtgt tcagatttct ttacaacaag agaccctcgg tctcttaatc 420
cctt 424

<210> 29102
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29102

gctgtgaata atagtcattg tcataaagaa gagaaaaagg tttttattta tacatgtatg 60
taaaaggaaa tgtgtataga agaattcttg cgtgtaaatg atgtgtggaa aggaattctt 120
gtgtgtgtga gcaacgagtg tatatgaaga aacttttgtg tgaactataa gtgtgtgttg 180
aaaaaatga aaaatctttg aatgtgaata gggtttgtat atagactata tgacgtaaag 240
agaagagttc caatgcgtgt acagaaaaag tttgtcatgt ataagaatat agatgtacaa 300
agaaagggtt tcctcataaa ggaccacagg tgtataattn tgtgaatgaa acaaaaagga 360

aaaagaaaga aagaccgcga aggtcgacat gttatagtta agaagtat

408

<210> 29103
<211> 425
<212> DNA
<213> Glycine max

<400> 29103

tgccgcccag ctcgcccagg tgagttcagc tcgcccagct agttttgttg cttcctcctg 60
aagcaacagc cttctggagg aatcttcttg acggcccaag tggcctgggt gctatttaca 120
ccccctggt tactaaatgc accccccttt ctattttttt gtaattcttt ttccgtaacg 180
ttacgaaact ttacgaattt cgtaacgata cctatatattcc ttccgcaagg ttacgaatcc 240
ttacggatta tgtatttcct ctttttttagc ttctgaagaa gttacggaaa ctcacggatt 300
gcacaaaaac accacttttc gatttcgcgc acattacgga atttcacgaa tcacgcatgc 360
ctgcttcctt tcgatttctg agacgtctcg ggacttcatt tattgcacgt aatcaagtaa 420
taatc 425

<210> 29104
<211> 381
<212> DNA
<213> Glycine max

<400> 29104

agcttggttct gatgcttggc accaattcat gaccataaat cgatggcaac aaacacccac 60
aaataaaggg atttagttaa tgcccacctt tcacacataa tctactcgga aaacaccacc 120
cttccttaat aagaatccta caattaacct taacgagaaa aaagttataa aggtatacat 180
tatctaattc tacacactat ttattcttat aaaacactga ctcgagcgtc aacatcttta 240
tgaataccct gccagagttc gactcatagt agatcatcat aaatattgaa ttctgcttca 300
aatacttttt aaccttaggc tataatgcta aacaagtatt accttcaaat tcaaatcata 360
atattattcta agtcataata t 381

<210> 29105
<211> 277
<212> DNA
<213> Glycine max

<400> 29105

acacttttga ggactaaatt ttgtatTTTT atctttcagg aatgtatttg tcagcagagt 60
gaaaaaatga aaaattaaac acatattata taacaaatat gcccttatac tgacaattag 120
agatgacaac aataatttta gtaacaaatt catctctcta tgtcatgtat gttattttat 180
taatggtgac ggacaaaagt taacagccag atatatttat cgcactttat acactttttt 240
aaattctata tttttatttc tcaaagacac atttatc 277

<210> 29106

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29106

tatcttatga ctgagtcaat tcacctattg gatcaatgaa ccattgatct agtttgggtc 60
aatttttatt taaaaaaaac aaaaatgata ttgattaata tacaaaaaaa tgaccaaaaca 120
cgaaggagat cgtctctgtc tgtcaaatcc acatgaaact tttgtttaat gaacctttgt 180
ccctaataata atcataattg gcctccaagg accaaacttc actagcattg tcgacctcaa 240
accaccatca ctccaccaat gtcattccacc tcaaaccacc atcattccac tagtgtagtc 300
gactatctct gtctctttgn tggactcact cagttgaatg cagaaccaac atcaatcaac 360
tttgcacgc aacctcccat ggctccact gagagc 396

<210> 29107

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29107

acacaagaaa ctgagcttct caggaagttt ctcaaggaag ctacctaggc nattaatata 60
aagcatgtgt aacacttggg gtaactttga tgaatgagag tcttgtgaga caaacttcaa 120
agttcaactt ctctccctct tttcttctct caattttgtg ctccccctc tctctttctc 180
cctctctctc tttcttttcc tccattgaag caccctctcc aagcttctta tccaagacac 240
tctcttgggt gcgaagctcc ttcttccatg gcttattccc tagtggtatga cgctccccc 300

cacctcttct cctttatctt ccactgcac tccatgatgg gaaatcacca ttgaaggacc 360
 tcattgaagc tcanagatcc agtctccata gaagctccac aagcaagctt acataaaaaa 420
 gaaataataa atcacaatta attaa 445

<210> 29108
 <211> 408
 <212> DNA
 <213> Glycine max
 <400> 29108

ttgtgggttt aatatagaag tgaggggacaa ggttgaactc cttccatata gggacctaga 60
 tgagctagtc caactttgta taagagtggg gcaacaactt ataagaaagt cttcttcaaa 120
 atcttatggc ttttactctt atccaaggaa ggaccaagcc caaggaattt tggggactgc 180
 accttcaaaa cccaagaaag ataagggtaa gaccatagag aaatccaccc ctaagactag 240
 ttctaagaa aggactagca acattaaatg cttcagatgt cttgagagag gtcacattgc 300
 ctctcaatgc cccacaaaga gaaccacgat tatgaggggt caagacattt atagtagtca 360
 agaggagact acttctcccc cttccttttag tggaagtga gatgaagt 408

<210> 29109
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29109

tatagtgcga gggatatgaag agaaaatcaa ctaggattaa tanatgtttt atgagggggg 60
 gggaaattga taaagggtta agagacttca gtttaatact cacgcagtac atttttaaag 120
 aggaaaaaaa ttcaagtgtg attaactctt aaaattaaag actaatccta taatggatat 180
 atgaaagaat caaaacaaaa agaaatgcct tagagtttta atcaagagtc aaaaatttaa 240
 attaatatgt tagttatata taattaaaaa aaaagagAAC taaagtaa atgtacatgggt 300
 ggattttgtg tcaacacaat agtttgtgta cctagccaat attaaattat acttcattgg 360
 ttcctattga taagactcaa gtttaaaata atgtttgttc tttttttata agactcaatc 420
 taccatgttt c 431

<210> 29110
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 29110

ggcgaatcga gctcggggccc gtgataactct aatcagctgc cgcattgctat ctatattaat 60
 gagcataata aaatccaaat agatatatta ttgctatagg gatgagaaga aatgatggta 120
 aaccatattg ggttgcaata gggaagagga gaaagaaatg gaagccttat tgagacgac 180
 gagtaaggca ctacaacaca ttataaacga tgagtagtag tcgatacaga agatacgtac 240
 tactgtgtat atggatatat aattgacctt tgctgacgca ttaatatgtc tacacaatat 300
 gtatcaagaa tgtgcttatt ttaagatata tagaagatta cattgccagc gtcaacattt 360
 agataactaat ttagtatata tatatgtata tatatctata tgtatatata tgtatatatc 420
 tctatgtata tattgatata tctatatata tat 453

<210> 29111
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29111

tacaaccata aaccccnngc aaaaggggca gnangcgnac acacgcgacg agcggcannc 60
 cacaanncag cccaagaagg ccaaaagcac tagnnnccta agctgctcca agataagact 120
 ccaagcatca attgatcacc ttagtctgac catcaaattt gggatgtgta aagaaactca 180
 ttctcagttt ggtgccctgc aaggagaata actcctgctg aaaagtgcgtg gtaaagagat 240
 gatccctatt taataagaac agacaacgac aatttttccc cttatgttta tcagaattaa 300
 gtcctctgac caagcttttc ctttaaggag aagaagaagc caaanattag gccaacgaca 360
 atctaatacct tgtacata 378

<210> 29112
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 29112

tatcttttat cattctcaat taggtgttgt aaaattggct gcattgtttc tttattaaag 60
gaagagtaag cagaaaagaa ggggtgaataa cacattatta cctataatgt gtattgggcc 120
ttccttgact atagtccata tccttgcaag attttaattt tagtttacct gcgcacatga 180
ttgactttct atggaaaatg gtaataagtt atcataatag tagatagagt aacatttcac 240
gacttattat gcaatgacaa taagtgtatt ttctaactag accattgtta tttgatttgt 300
gccttggaag gattagtatt accaattact gtaaatgcat tattctccat atgacagtta 360
tttatttgca accacagaag ttacattatg atattaaaag tt 402

<210> 29113
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29113

tcagaccaca acaacacana atctatgtat ccaaaatcct gcaanttttt ggatccncaa 60
ggcngagaa gcgaaatcga gaatgggata aatccgaagc aaactctcac ctacaccag 120
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
aaattttact tctcaacacc caattttacc ctgaaatgg ctctttgttc acttttgtca 240
tttgtttttc tctcttgtag agcccaagct ttctcataag tcctaaatga catttcaagc 300
taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360
cataacctct ctcttttgtc actcataaca ccataattctc actttctaac cctaagttaa 420
c 421

<210> 29114
<211> 399
<212> DNA
<213> Glycine max
<400> 29114

tttcttgtcc agagaaggaa tccacggagg aaatgcttac cacctcgaaa gactggaaag 60
cggttttctaa tgacttctct acggcctcca cataaggcat agaggacggg cagctcacca 120
agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180
gggtggagtgt agagggaaca actcccaccg agtggatcca cgggcgcccc aacaggcagc 240

tgtagggggg ggttaatatc cattatttgg aaggtaactt gacaggtgtg agggcctatc 300
tgtactggga ggtcgatctc tcccctaacc tctcggcggg tgtcgtcgaa ggcacgaacc 360
accatggaac ttggctgtag gtgggaagca ttgaatggt 399

<210> 29115
<211> 420
<212> DNA
<213> Glycine max

<400> 29115

gggggagacg tgtagtgaag tgtgaagttg gcattttcta tcttaaactc aatggaattt 60
cccaaatttt gaaattttgg tcttgtacga gttagaactg tgttccttta ggataccacc 120
agaccaaagc tcatttttaa tacagacaag aaatatttag tttatatatg atatttttaa 180
tataaatttt aaagagaata tgataaaaaa gaataacaat aaacataaac aatgaaaaac 240
tattaattaa aataatagga aatataggat aaagaataaa taaatatata acaaatacat 300
aatttaataa attaatgaat taataataaa taatatattt caaattgtaa atttattaac 360
taattaatta attggtatta ttaatttata attggtgtaa tctttgaagt aagcagagat 420

<210> 29116
<211> 291
<212> DNA
<213> Glycine max

<400> 29116

tctgcaggcg agctgcgggc atgcacgctg tatgatggtt atgcttgacg gaatgcccat 60
aatgtgtaca ggatatgtca tatgcccaca ccagtgtatc tatagaacaa tagatgatgc 120
tcttatgaac aataacctag ttcttgtctt ctgctgattt gttagcttat gcattctaag 180
gcatatatta attgaagtca tgccttacta ttgaacgaat gccactacct cggaacacgc 240
gagaatagta ccctgaacat ccattatata cctctggtac ccataccta t 291

<210> 29117
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 29117

tgctccanag aataagttaa ctacatcttg tttatttctt tttgcaacat ccccttttgt 60
accccaaagg tgaagatggc tatagaccaa atattcttca taaggatcat ccaaatatct 120
atgttgcaaa gaggaaaaaa gttatcatgc gtgaatgcaa tcaagggaca atgaagctca 180
cacaatgcta cattcaagaa gattgtttca acaatggatt attaatgaat attgtatgat 240
tgagtctcaa aaactaaact atgttagaaa acatcaacag gaactcagag ttaacaagta 300
catgaattta aatgcatgta ataatgagcc cctaaccxaa ggcaatgaan aaggtaagag 360
aattatacta ccaagctttt ttgctggtag ttagagatat atggaacaac tgtatttcga 420
t 421

<210> 29118

<211> 391

<212> DNA

<213> Glycine max

<400> 29118

tgtcttttct tgtttctctc cccatatgaa accaacattg ttcttgagca cttcattgag 60
aggtgttgcc aatgtgctaa aatacttcac aaatcgtcta taagaacttg ctaagccatg 120
aaaactcctc acctcgggtca cagacttatg tgtaggccat tottgaatag ccctaaccct 180
ctcctgatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgtgt 240
agtacaaaag atgcattttt caagattggc atacaatcgt tcttttctaa gcacagtcaa 300
gacagatttt aaatgatcaa tttgcaaata aagcgaagtg ctatagataa gactatcatc 360
aaagtacacc acaacatact ttcttatgaa c 391

<210> 29119

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29119

actaactctt atctgtgggg gaatctctct tttttgtttt attagnaggn gcctcttctc 60
acctattctc ctttatcttc cactgcaact ccatggctga aaatcaccat tgaaggacct 120
catcgaagct taaagatcca gcctcataga agcttctcaa gcaagcttcc atcaagtggc 180

atcagagcac aagaacttca agtaggttgc tccttaaacc tgcattaatt tttagcttta 240
 ccttctcctc cattgttgtg tcttcatttt ctccatgtat ctccctcacat gtcttgtgtt 300
 gaatgttggt aacatgattt tttagaattt ccactgatta aacttgctat agaagctaga 360
 ttngattgtc tatggtacaa atttcttgtt cttgttcttg aacctgagt t 411

<210> 29120
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 29120

agtgtcatag tcatagcatt attgttagta tttcttatag ccataaatgg ttcgataat 60
 gtttcatgcc aacacctgtg tttcttttca acaaattttt tgatttaatt tacaataatc 120
 ttgttagtgg cttctgcttg tttgttagct taggcataga aaggcataaa ataatgatt 180
 tcatgccaaa ctattgagcg aatgccacta ccttgtcaca tgtgaaaata gtaccctggg 240
 catccattat agcctctggg atcccaaate tataggctat ttggttttgg atgaatttga 300
 tgatgtcatt ttgagtaaca gagaccatca gttgtgctc caccacttc gtgaagtaat 360
 gtgttgccac aataatataa ctatggcatt tagaagaact aggttggtt tt 412

<210> 29121
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 29121

tctctaaagc tatggatgag gaaataactt agaaaattct tattcattca ctgcctcagt 60
 gcgccctatg cgctaagcga gtcttacttc gtgcgctgag caagttgtca ctacactaa 120
 gcgcgccaac cccacccat tggctgaagg ggtctcgcta agcgagacag ttgactaag 180
 cccaacaagt tccatatttc aatcttaaca ttgttacata tttcaatgaa agttgccaag 240
 tgtgcataga gatcttcatt aggtaatcct tcaaataagt tcccttgcac taaatgaatt 300
 aaggaatgtg gatagttgat gttgttagct tgcacttcaa aacgtgcaat gctagtgaag 360
 aattgtggta ctgaactact tgagtaaccc tcaagggtaa tcctctgggc atgctcttct 420
 gccatggtaa t 431

<210> 29122
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29122

agcttggtaca acaagtaact gaatctgttt ttggtactaa atgaagtaac taactaacta 60
 atttccacta atatataaag ttaataactca gaaggatggg atgggccttg attangccca 120
 tctaattcttc cttattaaac tgattacaca aagcaaggcc caaattcgta gcccaattac 180
 tcaagtgcgg aggttctgac ttccaagccc aatttgaccc tcaaaatgga agaattggac 240
 caagcttatt tgtgacaaca ttgaagatat tgtttcttat ctttcaaggg actaccact 300
 ctccatttgg agtccttttag tgtcctatat gccctgcaca agacagatag atcaagtaag 360
 cacaaaaatn tgaaaataag ccacaatgat caattaagct caatca 406

<210> 29123
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29123

ggcttggggg gcttcttttg aggctggatc ttcgagcttt tattaggtcc tttaatggng 60
 gntttccacc atggagatgt agcataacac aaacgacaag aggtgagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttgagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240
 catgaaattg aaggaagaaa aaggagagaga agttgaactt tgaattttgt ctcaagac 300
 tctcattcat caaattacaa caagtgttac atatgcttct atttatagac aaggtagctt 360
 gcttgagaag ctttcttgag aaaatttcct tgagaagctt ctttgggaaa acttccttga 420
 gaagctagag ctt 433

<210> 29124
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29124

agcttctata taagctgaac cattttatca ataaagacaa gttgagtttt attcagaaaa 60
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgccct cgctggaaag 180
 agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
 tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcattnggag cctgtagct tcagttattg ccatttctat atttct 406

<210> 29125
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29125

ntntggagta gaaacatggg accaactcat tntatttcat taattcgtat ctagtcaagg 60
 tctgagagac cgtacaagtt tcctagcgat ttctaattat gtgggtcatt aagtctatca 120
 tatgctgaca atagctgaga agcccgtaga tttcttcggg ggcgtagtag gtgtctgcc 180
 tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240
 accgatccat ccacatggtt gcctcttggg gtaaagagtc gatcaccctt cctctagcct 300
 ctttttccgc gtatacttgg gcatactcgt ccgcgaccct atgctcgtgg gccgtggcta 360
 gacctaacct ttcttggtag ttggcgatga tagctagcat gttgggtctt gtctcgcata 420
 aac 423

<210> 29126
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 29126

agcttatgaa tttaaattgg atatgttatg aatatatatg aaaatatcgt tcttttgcag 60
 atacattcaa gttaaaggct aagccaggga agacatacct tatgcgtttg atcaatgctg 120

cactcaatga cgaactcttc ttcagcattg caaatcacac cctcacagcg gttgatgtcg 180
 atgcaattta tgctaagcca tgtgacactg acactattct cattgcccct ggacaaacct 240
 gcaatgttct tctcaaaacc aaatctcact atcctaattg cacattcttc atgagtgtta 300
 taccatatgc gactggacaa ggtacttttg acaactcaac tgtggctgct atccttgaat 360
 atgaagtcc accacattgt gttcactcaa caacttcag 399

<210> 29127
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29127

ggttaaagaa aaataaaaaa agtaaccaa tattgaccnn ataggttatt cagagagcaa 60
 tcaagaacat cttatgatac cttgtggact ttgtataatt ggtaataatt tgacctatgc 120
 tactatttac aatggtagct ggagccatga acatttgggc aatttcaaaa acttgctcac 180
 tttctattat agtaccaatg cctccaattg ctttcacaac agcttcaactg cccaagtac 240
 ttaatctaca gtatacaagt tgtcctttca ctttttttgg ctctaaggag tcttcatagc 300
 ataatctgtc aatgcattga aatggtactt tgtaatatg gaagacttaa ctaggtgttg 360
 tcaataaac aaaaagaaaa ttacttagca ttntccttgc ttcaaattg tataatcatt 420
 ccttatc 427

<210> 29128
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29128

agcttagaca aatgtaaact acatccaaaa tgatttaaaa atcatccagc tttagatggc 60
 tcactttagat atttoggacc tatgttcttc ctcaaaaatt cagacaaact tgcacaagca 120
 gcacgccctc tttctaggca gtgaagataa tcattcacta gaaataaaaa aaaataaaca 180
 gaaaactaat tagatcattg tgaaccact gaacactgta tttttcacct tatcattttc 240
 tttattattt tattatttat aagtcaccag gtctagccca aaaatatata ataaggaaag 300

aggaaacagt cagatccacc agaggttctt taatagattc atggcccaag cacaattaga 360
tcttgccat tntattgatt ntattctgca tatctcccat taaa 404

<210> 29129
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29129

tagaagagcg tcgaggagaa ggctttingtt ttttgatac atcttaagaa aatcttcgag 60
ctgtactagg catgatcgta agaaaatata aaattttaaa attgttttta gttttcgtaa 120
cttaacgitt tttcattttt tggttctgta attttttttt ctaattttaa tccttatata 180
ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240
tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300
atgtgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360
aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaac 409

<210> 29130
<211> 384
<212> DNA
<213> Glycine max

<400> 29130

ttgcttatga tcaacaaaat taataatcta ggttaatacc atttagttga aatgtctcca 60
caaggcatat tttccatccg ccggtgatgg ctattggatt aaaccatcaa caaaacaatt 120
ttttttcgca cttacagata gagcaatact catcgatttg ctccaagtag tgtaattatc 180
accattcaat tgtttggtga ctaaactaac tcctgcatga tatgaggaat gaggacaaaa 240
cgatttgaac gatccataag gggattggta gtggctgtca tttgtgggta aattaaaaaa 300
aaatcccaag acatattgct ctaataccat ttacaaatga caaaagacaa gacaaggaag 360
atcagatgta ttggctcata tagc 384

<210> 29131
<211> 437
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29131

agataactcag cttggaaatc atggaatcca aatttgntng acccaattcg ttcaattctt 60
ttcttagaaa tgtgacctaa gcgcttgtgc cataatgctc ctgagtttgt attatcaatt 120
ctacgcttag taccacacaa ttctgtatta aaggattcac cataggaagc tacactatca 180
agtaaataata gattatcatt aaccaagagt gaagcagttc caacaatatc tgaattaaaa 240
ggtaacctaa acacattggt tccaaatgaa cacaaataac ccaatttata caaataagaa 300
actgaaacca aatttcgtct aatgacagt acaacaaaag tgtctttcaa atccaaataa 360
aaaccaatac ataataataa tctaaagtgc cttatagctt ccacttccac cgatgtacca 420
tctccaacat agatcca 437

<210> 29132

<211> 439

<212> DNA

<213> Glycine max

<400> 29132

ctcgtacccg ggatactcta actcacctgc cgcacgcttt cttttactta ttgtgaagga 60
attgagtacc ttgagacctt ctctcctgat gagaaaattg agacaattcc agctattctt 120
gcttaagact gcatcaattg ctggaaaact cagctacttg atgttaacaa tgcattcctt 180
catggaatcg catctgagga agtctacatg gtccctcccg ctggcgtaaa tgagtcacat 240
ccatctcaat gttgcaaact ccttaagtct ttgtatggcc tcatacaagc caatcgagca 300
tggtatgaaa aatatccctt ttttctcttg tcttgtggat atcatccagc tcatgccgat 360
catagcctgt tcatcaaaac taatcagtc aactctatag actttatata tttattgttg 420
gcggcattgt gctaactag 439

<210> 29133

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29133

gaaactaagc cagagagata aaccttcaact ggggcgcaac tgtcttatct ttgtatcnca 60
ngaacnatnc ccacagcaat atgctattct gagagcttca attacagcca gcgagtacct 120
agatggggta agtgtacatt caatcaatac cctttaaagc aaatgttttg attatttgta 180
gttatagcgt ctagatactg atgggtggctg ttttaagaga cgttgtccaa gtgctttgac 240
ttgatgcaag acatgatgag aatggaagca aaggagttaa tgatagatac aagcttttta 300
agcacagaaa ctccagtgag tatgttggag agaaacacta aacgacaaag aatttagtgg 360
tttatatatg ttgcagaaga aaaattcaat tntctcaaac ttaagaagaa gaaagctgag 420
ggaaaag 427

<210> 29134
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29134

agcttgtaca ctacaacacc aacaaagtcc aagaatccct ccataacaat gatgctcaat 60
accaacacgc tctttccac cttctctctg tctctcaggt atatttgcaa ttcatgcata 120
ttgatatgct catatgcaaa aactagtttc aaattttatt cttgcgtatg gtgtttgttt 180
attatatgca tagtttgtca atcttcttta aaactttatt ttaatatataa tggatatgat 240
tgaatgtttt taatggttga gataggtagc actgacacag aagtgtgaa tttattggca 300
gttgaaagga gaagagatac ttgagcaatt cgaagcttct agttcttctg agccggtcgc 360
ttctataact canganacag anagtgaana tgaggatgct 400

<210> 29135
<211> 423
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29135

tcttgcgtag cccctcttgg tgctcagaaa atcccttatt tctattcctc ttattactag 60
ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gtttccctct 120
ttgttttctg caaaaaagaa aatcaatatg aaacaattta ggctgaattg ttatcgttat 180

tattactcga accataagga ataacaacta aacaagtcac ttaaaatgta actttgaagt 240
 taattggtat ttttttaatt acaagtttac ttcaatatct aattttttac tctacttagg 300
 tcgttttttt aatatgaata tgaatttaaa ggtgatatac agataatata aatgacttgc 360
 tagtcacaaa ttgcgatacc tatcattntt aattntaact tacttttata aatattaata 420
 aat 423

<210> 29136
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 29136

agcttttctt ctacagttat gttcatatga ctaatcatct cattaaaaca agcattttta 60
 atcatatatt tgctgccagt ttttaattatg caatacacat aactattaaa ttgttttcaa 120
 aatcatttta acttgctcgtg cctcaaagtg attagacttg ttaggttccc acaatggatc 180
 ccatcataaa actcatcgcg cattaaactcg ttgcccttaa aggggtcttac agttgtgtga 240
 ttgtacagtt catagctcac aactcaatgc gtacaagatc tcaatacaca tgtatcttac 300
 aattcaacac atactcaatt tatcacatac acccaatctc aatcacaatg ttataatacc 360
 aacgcaccat gttatcacat ctcataaatt atatacacat cac 403

<210> 29137
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29137

ntcaaccac ttaatttaaa agagaatggt tntgatgttt cctttttaat tatntaagtg 60
 cctagatctt caaagatgga agtcaaactt ttactttttt cttaatcttc ttgagagatg 120
 ttcttattgc tctcatagtc cttggataga aggttgacct ctttctccaa cccttcaaag 180
 aatccatggc cttcccaacc attatacccc ttctggaatc tccttctca ttggcttccc 240
 tettaatcct cccttgccct taatcatttg gggggc 276

<210> 29138
 <211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29138

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tttgcacgtt tgttttttca gcttttgaaa tatgtatttt tctcttttat tattctgaat   60
attctttttg ggtacagcca ttatttataa tatagttttt tttttactaa attcctttgt  120
aattttaaac agattcatat ttccattgca tgggtcatgt tattcaatct catagagtgc  180
attcttattt ttaatgtgct aacatattct cacctttcat ttctagtaga ctatctaagt  240
tatttgaatg aagaaggact agctatatct ttagaatgcg gctttgagcc taactcaact  300
ttaaaagcta gcttataggg tgagggttgt gccctccact tatatagtcc atcttggtac  360
tatctctagc caatgtgaga cttgaatttt ctcatcac                                399

```

<210> 29139
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29139

```

ggancnangg cagggatntc accagaaant aatgtttgtt ttttacacnc naaagacagc   60
cngccgcact caccacggnc actacgagca cggggggang ccatnogggc tctgcaacgc  120
accgtcaatg tttcaagctg ccatgaacaa ccttctcagc cctttcctgc ggaagttcgc  180
gacagttttt ttttacgaca ttctgatcta cagcgaaatc ttcagtgatc accttcatca  240
tctcgaatgc gttttcaact ctcttctgca ggctcattat tatttgaagc aatcaaagtg  300
cttcattggc taacgccagc ttgattactt aggccacgtt gtctccggca gcggtgtcag  360
acctgatcca acaaatattc aggcctatct caaatggatc acgcctcgat cttccaagga  420

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<210> 29140
<211> 275
<212> DNA
<213> Glycine max

<400> 29140

```

atgcttggtc ttgatttttc ctaagttctg gaactagctt aaaacaataa acttggccct   60
ctcttaattg gccttggggc tggcgaaacc caaccaccaa agtccttttg gcacctacta  120

```

tatgtggact tgaccaacgc tgttattgga atgttgcaac aatttttcaa caccttattc 180
acacattctg ataagtgggt tgccatgtga ccatatcgtc ctccatatgt atgcgacgcc 240
atgctccatt tttccttaga gattcgatca atcca 275

<210> 29141
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29141

gcttgtaga caagtggcct tagaaatctt aagaagtgtt ggggtgggttg aattaagatt 60
ntacaaacca ttcccgaatt aaaaattcta ctttgatctt aatgcaagtt ccaagttccc 120
ttaaagatga atttctaaat gatgattcaa attaaacaat ctgaatgtaa atgttaagaa 180
acaataaata aaggagttaa aggggaagaga aagtgcaaac acagttttta tgctgggttcg 240
gcaaagttcg ttgcctacgt ctagtcccca agaaacccac ttgggagttc cactatctcg 300
canatccttt acactttctg aaacacacaa ggaaaaccct ttctttgtgt tcagatactt 360
tataacaaga gactttcagt ctcttagccc tttgattaga aagagaagaa gaagaagaag 420
atg 423

<210> 29142
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29142

acaccggaaa gaaaagaaag acggagagga gaatcaagga aaaagaaaac aacccaaaaca 60
agcttgagat cgagcctgca aacccaaannn nnagggncgg ggaaggaggg agaaaaaaaa 120
gtttttgagt gagagaagag aaannagggg ggggaaagag gaagaaaacc cacccaaagc 180
agagcaaagg acagaaagaa aacgaaagaa agacgaagag aaaaaggaaa ggaaaagagg 240
aaagaagaaa gagaaaagga agaaaacagg gaaaaggaag agaagcaaag gaaaaaagga 300
aaagaagga aaaaaagaaa cgaagggaaa ggaaaggaaa gaagcgaagg gaacaaaaga 360
cacggaggca agagaaagga aaaaaacaag aagaaacgaa aagcagaaca ggaagaaaaa 420

aaaaaagaga gg

432

<210> 29143
<211> 322
<212> DNA
<213> Glycine max

<400> 29143

agcttactca gaatcgccaa tcagtggact ttgttggttg cgattttgtc tgagctatca 60
tgagtaaaga tcgtttaccc actcattaat acaactagct tattgctaga aaaatcgagt 120
catattcata gttctaatagc tttcaatggt aatttcctta ttgtggtaat gcttcttctg 180
atgatgagat ggcttttggat ctgtggatga atcttctcca cccgaaaag gatcctgcag 240
tgcaagattg accaaagtgg acccaaaaaa gtcattcgtg tccatttttt taaaaaggag 300
tacacttttt tgattggaaa tg 322

<210> 29144
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29144

ctataacana tctaaaacac atagtttgaa accaaaggga gtactatttt ctgcctatc 60
ttttctcttt tttaaaagaa caagaaaaat acagaggaag ggaatccctg gaggaacac 120
ggaagaacaa aaaactcaga attgaaagaa catgcaatgg tcctcttgat tgcccatat 180
ttcaagcgta atatcgttta actacatcgg agttcacggg cgagggcaat tcctcgccat 240
ccatgtgggt gagtatcaaa gcacccccag aaaaggctct tttaccatg aaaggtcctt 300
cataatttgg ggcccacttg cctcgtttat cttaaacagc gtgggacatc ttcttcaaca 360
cgagggtccc ctcgttgaac ttgcgcgggc gtaccttctt gccgaatgcg ttctttatcc 420
ttcgttgata caa 433

<210> 29145
<211> 53
<212> DNA
<213> Glycine max

<400> 29145

ggctgattgc tttttattta atgagctcct gccagaatcg actagcacag agg 53

<210> 29146

<211> 260

<212> DNA

<213> Glycine max

<400> 29146

agcttctatc tataggaggc ggaccattcc aagtgttga gaagatcaac gacaatgcct 60

acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120

ctctttttga tctctttttg atgcagatgg aggagccttg gatttgagga caaatccttt 180

tcaagaagga gggagtgatg aggacataac caagggcaag gaccatgaag cacttgaagg 240

tcccatgacc agaggcagac 260

<210> 29147

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29147

atccttatgg cctgcctact gacttcaccc cccgngcctc tttggattat nnaagccaag 60

ctcctacttt ngaaggacaa ctcccacctt atgaagacta tcccggacaa gatgatgggg 120

aaggagatac ccatcttggc ccctgctcc acctcaaaga tccatccccg catgaactac 180

cccagctgaa catagtccac catatcccg cctcatccac acccataaaa gaatttggtc 240

cctttgcgga agataaggga aagatcgagg cgcttgaaga gaggttaaga gcagtcgagg 300

gcctcggtaa ttaccatttc tcggatttgg cagatttatg tcttgtgccc aacatagtca 360

tccctcccat attcaaagta cc 382

<210> 29148

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29148

agcttttggg tgtaatactt acttggtggt gatgaacaaa agcgcgaaac ggaatcaaaa 60
aatgcgtaaa atgatgaccc tagggctgca aactcgtaaa tcccgtgggt atggcttttg 120
aaaggggggaa aagaagtttt tgaatgcaaa aacgtccccc ctttcgtcat tcttatattt 180
tggtgcaggg gtggctcgcc caggcgagct aacgtgcatt tttttttttt tgagaggaac 240
attaaccatg tcccctcctt ccttatgggt tagcatcttg ctttaactga acttacttaa 300
gttagagttg ggcattgatt acttattntt ataacaaaca aaaagtaaaa gaaaactgcg 360
aatacaaagg atacgggggt gccttgcagc gacgttctcc gc 402

<210> 29149
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29149

cgagaagagg aagcgnngaa gggtgaaact ncctgctntt atttttgacc acagagnngn 60
acctggagaa atgncgcgcg ggncaagaga ccccggggac gncagggggg gngctatngc 120
ccaaaaccaa gctggaccaa tcccgaccca acccaggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gtcctggca gtcaacagat aaaaggaaca aagaccacaa 240
aacaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatattg gagatatggt 300
ctctgggaat cgattaccaa gggtaggtaa tcgattacaa ggctcaaaaa tgaagacagg 360
gggctaagat ggtctctggt aatcgattac cagggaatg aatcgattac c 411

<210> 29150
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29150

agcttctagc tttatggact taccttgaat taattccttt gatagccctt ctgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaaa tgaaaaacca tgatatcacc 120
atatccttaa ggaattttgg agctttggaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg ataacttggt atgttggcta tgcttcatga tgtatttttg gccatacttg 240

atgtacattg catattgggtt aaatgttgga catgctgaat gaaatgttgt ttctcaaacg 300
ctatagagta anacaaaaat aatcgaaaca tgagaaagaa aagcaataga gttgagttaa 360
taagatctta catggacaag aatga 385

<210> 29151
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29151

gcancaacaa gaancaagcc aaggctattg tgcaagcaat caatacggca aaacacacaa 60
aaagattatg atgatggatg gctcaaattc tcacaaaagt aaacttatca ctttcaaatt 120
gagctttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt cacaaaatgt 180
caagagactt tcatttttcag aacaattacc cattacttga acatattcta taattcaaag 240
acaaacatgc aaattttaaca caacaaaact aacaagatta aactagaacc caacaaaact 300
aacaaaatta aactaattta acacaactaa caaaaccata accaaagaac actcccncca 360
tacttaaaca acaca 375

<210> 29152
<211> 233
<212> DNA
<213> Glycine max

<400> 29152

tgctttttga acgcatactg tggatacaac tagatccgga cgaacgctcc agatgaggag 60
aaaatggaat tcatcactga agacgctaac ttttgatata gggatcatgcc cttacgccta 120
aaaatgtag gcgctacata ccagagattg atggaccaga ttttcaaaca atagatggta 180
caataagttg aggtctacat tgacgacatg gtggtcaaata cccatagcat acc 233

<210> 29153
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29153

tttcttctg tatcaattac gagcgtctcg atatactacg ggacataatc ggacatccga 60
 gtaaaaagtt attatcgttt gattaggcta agagcttgtg ttttgaattt cgagcgtctt 120
 gatataattac aggactcaat cagaaatccg atttaaattg tattcattcg gacatccgag 180
 taaaaagtta ttgtcctttg aatttgctac gagcttccgg tttcaattac ctgcatctcg 240
 atatactatg agacacaatc ggacattcga gtaaaaagat atcatcgttt gaatntgctc 300
 agagccttcg ttgtcaattt cgagcgtctc gatataattac gggattcatt cagacatccg 360
 agtagaaagt tattgtcatt tgagtttgct catagcttct at 402

<210> 29154
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 29154
 tgcttcttga aaatgggaga attgacctag gctttggctt ttaaaaaaac acttattgta 60
 ggtgaaatgc ttggaccaat ggaatagcaa ggaatcctta tcttcttaat ataagcactt 120
 tgaatgacca ttaaaatgac taattggaag cttggacaac tcttgatgtg ctctccacga 180
 tetgcgccat gccttatatg gcttcttgta cttttctaac actaactata aaacgataaa 240
 gtagagtctt gccataaatg gtaaaaattg tttttgc 277

<210> 29155
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29155

cccaacgcgc gctacactca gcaantttga atantcncac tatagntatc atcgcgatct 60
 gatgatgaca aacaanaann acaaaaaaaaa agaaaaattg agttgtntca atgcnatata 120
 caggcgaatn gagctcggga cacgggatac tctagagtcg agctgcacgc acgcatgctt 180
 ttaattctta gtcgatgacg aagcacgatg aagtgaacca cgatcacaag caacgtatcc 240
 taacgaccgg ctggagacaa aatgaaaat acgaaaggga tggaaaagtc ggagggccta 300
 acaagcatcg cacatgtaac gacgtcacct cgtcgcacatca tcctgttatg caggaaccga 360
 cggatggcta cttaaggacc ttcacctcaa gttcctttgc gcgatccatg cctgaacac 420

cacttgtggg atgggaatct gggcacatgg atacatcaag caatacgcgga tgattctgac 480
 attacacaat caattccaaa gaaacaggca acggcagaac gtgatggcta cacaatgaac 540
 gaatgctg 548

<210> 29156
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 29156
 tttattgtgt tcactaacag aattttctctt ggcgatttct ctgaagtttg tcggacctta 60
 aaaaagggtat attatgtgca tgttagaaat gatgtgactt ggccttgggt gaactacaag 120
 cattatcgat aaacattagt tattagtttc ttcattcttt tataatatag gttgatcaga 180
 gtttgtgtga gaatatgatg aactacaagc atttaccacc tgttactatt tcatttcagc 240
 ttcttaaaca gctacttcat tttttttatt tggatatatt tttgctcaaa aacatgttga 300
 taaaataaaa tttgtttaga taatatgatg agaatatgat gaac 344

<210> 29157
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29157

aagggcagga gcaaaagggg ggcccaaat aacaacatac aagnataggn athnaactct 60
 caggagaaaa aaaatctatg cactgatoga tatttacagt ataataagat ttatacaatc 120
 attcaattac aatcaatcat gtataataga tgttcggatg attaaaacaa ttataaagta 180
 atacaaacga taattttgtg ttttaactaat aatataaaat tgttttacat tatcaatgtg 240
 taggcattac agtctacaag attatatatta gactgtatat gtgcatcttg agaaataatg 300
 agtctttaat aattatggat attttgact 329

<210> 29158
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 29158

atcttttacc tcacgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc gatgatccca ttacggcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttatggta ccctcgcgtt 180
gtggctactg aaaccccggtg cgatgaaagg cgtgatgcta tcgtctgatg gcactcctct 240
catgaggtag ccaaacggtc ttatggcgag gacgggatta taatcaatac aacccttgt 300
tccatcaagg gaaccttt 318

<210> 29159

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29159

ttccccagcc ccttctcatc aatggacgcc tttttaagtg ncttacaagc gaaagcgagg 60
gnaaagggga gatcacgcc tctcctctct tgaatttcta tcgtctccc tctcactctt 120
tgactgcctt tctaccttct tcagttatcc ctcgatatgt ccttcttttg aaccctccct 180
tgcacaccat ggttgctact ccattcaccg gtggtgactc ttccgtaact gaacaccatc 240
gatttgtaa gagcctcaga ttcacatcta agtgaacaa aacgacgtcg tcttgaaga 300
tgcactcaat tctgaattcg caagaggtgt agatgatagt gatgctgggg ttgaactcgt 360
tgatgaagga ttggaatgag ttacaacacg actctgagga gttaac 406

<210> 29160

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29160

agcttttctc ccacgaagag tctctgcggg tctgacaaaa ttgggcccac ttctccttgc 60
taatgtcgta cttttcgcac agtgtcatcg acactttcct tgtcggctac aagtgttat 120
ttcaacgtca aatcagactt aaattttctc cattgtctcc ccacagtctg aagtattttc 180
ttttttgtcc tcagatcaga tgcttcaggg atatcanatt caacctaaca aatggaaaat 240

cacattctat tgttactaaa ttataatttg attgttaatc aacaaaatgc anaatttaac 300
 taaaatacta gaatatcctc ccatatcaaa tcctnttaag cagcagagac ttgtttccat 360
 agtcgtatgt cacatca 377

<210> 29161
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 29161
 agcttccatc attactccac ctctttttgc aacagattgg atagtggaag ggccactttg 60
 ctaaaatcct tgataaagcg cctataaaac cctgcatgac caagaaaaga acaaacctct 120
 cgcacgcaag aggggtaagg caattgtgaa ataacagcta taccttggtc taccatgaag 180
 tgacattttt caaaattcag cacaaggtta gtttcaatac atctactaag aactctatct 240
 agactatcca aacatgtatc aaaagaggat tcataaacag taaaatcatc cataaacacc 300
 tgtatgcaac tctctaaaaa atcattgaaa atgctaagca tacaccgctg gaaggtagca 360
 ggggcgttgc attggccaaa gggcatcctc ctatagacaa aagtgcctaaa ggg 413

<210> 29162
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29162

tggaaggtag tcataacctca canaatatat gtatgtgtgt ttatgtagtt agataccttg 60
 gatatgcatg tatataacaa acataacctca caaaatatat atatgtatgt ttaggtagca 120
 agataccttg gatatgcatg tatatagcaa aaatatctca caaaacatat atatgtatgt 180
 ttaggtagca agataccttg gatatgcatg tatatagcaa aaatatctca caacatatat 240
 atatgtatgt ttaggtagca agataccttg gacacacatg tatatagcaa aatacctcac 300
 aaaaatatac atatgttttag gtagcaaaat acctcatgga aaaagaaaaa gagataaaaa 360
 agaaaaaaa ataataataa gttgtctagc taaaaaaaca acatgcttgt gaaaagagat 420
 aact 424

<210> 29163
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 29163

agcttgtaca tatcacactt gtaaaaatta ctgagaattg gttactttga attctcgagc 60
 tgaaagtttt actgaatttt ctagacatct gaaaaaaagt tataaaaaaa gaaccaggtg 120
 gtttgataa aaggaaaaaa taataaaaat cacacaagtt ggcagaaaaa tcagtatcca 180
 aaaaaaaaaa gagtgaagg gaagtgtgct tgttgttttg gctgaaaatt tattctataa 240
 ttgctgccta tgttatacca atcttagttc cgaaatttca atagaaaatt agtttgaaaa 300
 caagtgccaa agctagaggt ttgttgagtc ttttttttat agtttttttt actctactct 360
 agagccattc taagtttctc tttgagtcct agcttgcttc tatgtccttt 410

<210> 29164
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29164

tctcgcccaa ttntctataa atagggggag aagtgaagna gtaatggttc agccccttag 60
 gcacttctct ctctttcgaa tttgcttagg aaaattgttt ccgtgaagaa aatccaaacc 120
 aaggcgcttc cgtaacgttt ccgtgggtga tttcggaag gttttcgacc gtacttcgac 180
 gttattcatt cgttcttcat cgttcttcag tcttcaacgg gtaagtacct taaaccaagc 240
 ctttcaattc attctatgta cccgtgggtg tccacatttg gtttcatgta tttttattct 300
 cgttttcatt tactttttat accccctttt gacgtgctta agccatatat ttaagtaatt 360
 tctcgcttaa cctaaaaata aaacaaattt ccaccgatcg tttgaattgt atcatccgtt 420
 aatttcg 427

<210> 29165
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29165

agcttcatgt tttagttaag cattttctac taaaatatta atttggtcct ctattttaatt 60
aaataattta atttattatt ttttattatt aaaattttta atttaatccc ataattttta 120
aaattattgc aatggcatcc ttttcgatta attacaaaaa acgacatcaa cttcttgtat 180
acatgataca acaaaaataa caacacatat ttatcacgca agacacctta attaaaaaaa 240
attaaaggaa ataatattaa tggaataaat cgtatccata gaaaaaaata ttattttgtg 300
tgtactcaac ttttcaatga agatcagtc tcaactttta ctaaactatt tcatataaat 360
attaagataa aaaaatatta catcagctnt gataataaat aaattcat 408

<210> 29166
<211> 429
<212> DNA
<213> Glycine max

<400> 29166
tgtgactggt cgaaagcaaa aagatgaaac tattgcagct tattttattt tgatcaaaac 60
tcaagaagaa actcttgcag ctgcgaaaat tattgctgca ccttttagtag aacaattaca 120
gaaagagatc tctccaagaa aatcaggcct agttatttgc agaccccaa gttttgatca 180
agaagcacia caaaatgaga cttgtctacc tgccttgaac atttttgctt gagcaaatta 240
cactcgcac ccttgagggc tagcgcttat tacactcaac ctcaactcct ttttttttat 300
catatacaag actccattgt atttttacca tccattacac tgtgcccctg tttacgctgg 360
aatttggtaa acaaccgcta gtctaagtta attgcttgcg agatcaacta gtgaatctca 420
ggagcatgg 429

<210> 29167
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29167
agcttgactt tggtttagac atgattggta catgatttgg gacttgtagg atttgatttg 60
ggcaagattg gttgaaggga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120
tgtgaaattg tgcagcagaa ttttgcacaa gtgcagaaaa atgcttgtgt gtgggtggct 180

gtggaaagtc tagtgcagaa tgagttctgg atgttttcta gtagatccca acggtcacaa 240
 tgtaggctta tgtactagag acttcagta aaattttcga gtcgatccaa cggttaacga 300
 attggatcga aggaattggt actggggctt ttaagcgaga aaaagctgtg attntgggtg 360
 gtgtttgagc acagttttct gcctttgctc tgttttgc 398

<210> 29168
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29168

ggtaagctga aacatatcaa gaaagttttc cccaaaactt tgattataga gaaaataaaa 60
 aacacaaaac attaatatag cattgcttct tcttagataa cataaaccaa tgaaaacaac 120
 ttgctttgct gtcttttga cgggtgtggtt ctttgatta aaaagcttaa ttttatttgt 180
 ttctttctta cttttgatat atcgtagaaa ccttgtttac ctgcatgcat tggcagttca 240
 tgtaaatctt ttatttgctt gtaaaaaatt ctgtggtctt tttgtcatcc ccatanggaa 300
 atggagtgat ggatgggctg tgataagagt tgatattgga taaactatnt ggatacagta 360
 gtttcagcta tttaatcttg ccgtcatgct gtggcacaat tggatatctag tgcttggttg 420
 gatgacttat 430

<210> 29169
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 29169

agcttctcaa ggtgtacgga gactcgacat tgggtgattca ccagcttaga ggggaatggg 60
 agactagaga ccacaagcta ataccctact aggcctatat caaggaattg gctggtttct 120
 ttgttgggat ctcttccat cacgttcccc gagaggaaaa tcaaattggtg gatgcgcttg 180
 ctactttagt gtccatgttc cagctgacac tacatggaga cctaccatac attgagttca 240
 ggtgtcatgg cagaccgca cattgttgct tgggtgaaga agagcaggac agtaagcctt 300
 ggtattccga tatcaagcgg tacgttgaaa gcaaatagta cccaccggag gcgtttgaca 360
 acgacaagag gatgttaagg agattggcag atggcttctt cttg 404

<210> 29170
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29170

tntgaaaaac ctcacgacag aacattgaca aaggaatcat ccttttactc taagaaaacc 60
 acaatctagt cggaaaattg aaatatgggg aaaaaaattt agaaattaga ttttcattta 120
 attcaactat aaaaattaac tcataaaata agtattaccc cacttatata ttttattttg 180
 atattagtta atgtaagact ttattttttt caataaaaaac ttatgtaaat ctaggggatg 240
 atcctctoca ccaaaaaaag taatcttctc tacacacttt ataacattgg attaccaag 300
 tgcttttctc taattttctt ctactatctc tatgttacca aaacaaaaaa cataattata 360
 tttgaacact tttaaatcct aaatacttca ttaaaaaactn taattttctt ttatcttttt 420
 ttt 423

<210> 29171
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29171

agcttattct tataattcat gctaaaaggt gcatagaata aaaccaatta ggacactaaa 60
 gaattaaaca tatagaactt cttaatgacc tcaaaacata gactccgtgg agataatgct 120
 tctcagtatt ggcggccacg ccaagtgcaa gactgagagg ttgtgttagg gatgggagcg 180
 acggcttgaa atatgtgtat atcacctacg tgtctgttac gacggacatt atacctcact 240
 catccaaacg agtagtgtat atcacctacg tgctntgtat atacaacatt ctttcatatg 300
 acacattata ttccaagcta tatattatca gcgagactct cgtaactgac ttagctgcta 360
 tgtagctctg tgttgacaat aatacgatag catctantac actag 405

<210> 29172
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29172

agaaactcag ctttctttca caatcaatct gtctactaac taacaannnc ttantgcaag 60
 ttctcattct tgttctttct ttgcctaaca tacacacttg ctcaaactca tgaaaagaaa 120
 cacaaactca atcacagtca tgcattcaat tcaaaaccaa atcatacacc aattttcaca 180
 caaagataaa agtgttttat tgccatatca tcaaatcaa gtcaaactgt tccatatact 240
 tcagaataag caaaccaact acccataaat aaaactagca gtgtatacaa acataaaaga 300
 aatactgtac tgaaaccgta atcataataa taataatcca aaaagcaaaa agcatcatca 360
 ggaatcaaca atgtcaagag tgtataaatt agggaataag tgagagcaac aacttctcca 420
 gatgacgaat aagaaagatc 440

<210> 29173
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 29173
 ttgcttatgc atgtctagag agttcttgag agagaaaggt ccaagtttca gagagtttga 60
 gagattttgt tatgtgaaga tctgcagaga ctagagcttg aagaggaagc cgccctgaga 120
 gcttgagatg agtttgtgag tgattgtgag gtcttagagg tggaggagac atccccacta 180
 cttgtatttc tgtaatgttt tatctttctc ttgtctttgt tgtaaaggaa gcttcccagt 240
 tatggaaagc taaatcctct gttggatttt ccttgtaggt acttgatgta aatatctttt 300
 tatctatcta atgatgtttt gtgtgttctc tatgctatca gtatttcatt atagtatgct 360
 ttaccttga tcacgtagat gcatgc 386

<210> 29174
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29174

actaagctta ggctgctcga ttgctccagg ttgctgcatg gattgggtata tgtctgtatg 60
 gnggtcagca gaggagcaca aaccacaaac ccttgcaaca ggtatagatt tctgattcaa 120

ggccagctgg gttaccaagt taaccaatgc atccagtttg ccttcaagct tcttagtctc 180
 agatgatgca gctgagtttg tagctacctc atgcactcct ctaatgacta tggcattatt 240
 tctggcgcta aactgctgag agttggaagc catcttctca attaaatttc tggcttcagc 300
 aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt 360
 actgagtcct tcataaaaaat attggagaag aagctgctct gaaatctgat ggtgagggca 420
 actggcacat ag 432

<210> 29175
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 29175

tagcttgcac tgtgctaagc ctaaagaact ccctgttttg aaatattttg tatttgggct 60
 aagcgcgcaa gggcagctgg ctaagcttgc atgtcgcggt aaacctaaaa acatctttgt 120
 tttgtaatat ctcaaatggg gctaagcgtg caggcacagg ctaagcgagt catgcattcc 180
 cggtaaagcct gtggtgctcg ctaagcggat tttgcaggaa atttcctcct gcaaaaactct 240
 ctaagcccta tgtggcatgc taagcccaat aatatctctg aagttgcaat ttcatttttg 300
 ggcttagcgc acaagtttgg gcttagtgcg caaaaaaaaa aatcaaaaatt tcttgtactt 360
 ctatttttgg atgtctccta cgcagcaagc ttagtgcgca ctta 404

<210> 29176
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29176

tataagaaca aaattgccgt aatcatttcc aaatangctt gngatttagg acgcatcaac 60
 aagaatcaag ccgaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaaatt tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatta aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300

caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aattaacaaa gccaacataa ctatcaaaac 420
 caaa 424

<210> 29177
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 29177

agctttatca tcgtcacctt ttaaacattg ttgtgcaatc tttcaacata accatgcaag 60
 cagctgcata cctatgcaac ttgtctaata tgaaaaata attgggatta attcatccct 120
 ttgcgaactg ttaaattgat gttatgagtc atgacaagat tctagtcagc atcctttctca 180
 gagtttagtg ttctgtcttt tcaaaagagg ttttctttct ctcttttctt ttttttgtgg 240
 attcgtgaat tttttgttat tgatttttta tgtttactta ttgttatgaa ttaccaaatt 300
 cgtaactaat gttatgatgg gtcctatata tctcgatttc gttgtgtatc tagtttaaatt 360
 atataatgga atcatgattc tattaggagt gaatacac 398

<210> 29178
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29178

ntgagccaaa atcctgactc accataaacc ttgtctcagt gngttatgtc aatccttacc 60
 ctcggaagca aaaaaaaaaa gaagaaaagg aaaatttcca atcaaaggaa aaaatagagg 120
 aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa 180
 tcaaagaatg ggagaaagaa aaaaagagaa aaggagaaga aggaaagaaa gctcctgac 240
 aaggatcgaa agaaaacaga agaaatgtgc agagaggtct ttggaccaga caatatctga 300
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaaccata acctannagt 360
 ggtctttctta ccaaccaaaa tctgtgctgt 390

<210> 29179
 <211> 393

<212> DNA
<213> Glycine max

<400> 29179

atctttagtc accacttcac cctaccttgc cttttgagag cggcaacaac atccatcgtg 60
gtacctgtct tccatttaac atgctcagtg taagtaacaa agtaccgcag accatccctg 120
agaaagttct taaagactct acgagccaaa caacgaatcc cgagtttctg aatgttctgc 180
atgttgctgc acaacaccac cttgtgcccc ttggctcctc ccctgcatcc ctcccatgac 240
caccgtatcg gccgctgtca cctccaccac caccaccgaa gccatcgctt ccaccaccac 300
cacggccaat gcgggtttgc acttcatggg tagtgatgtt tggccatcaa ggtcttcgcc 360
gtgcaaactg ctgttcacaa ctctcgctcc etc 393

<210> 29180
<211> 416
<212> DNA
<213> Glycine max

<400> 29180

tattccaggg acatgttatt attatgcaaa gccttcgctg gtagctcctc caggggccat 60
tctgtcagta gagcagttcc ttgagcaggt ggcccttgct agagctcaac ccttgattat 120
gagaactggg ggaaggtttg cagcccaggc acctcaacaa gagagatcca acgaggctac 180
tgctcctcct gagcctacac ctgcacaggt tgaaccaatg ctagctgata cacattcttc 240
aatggcaaat ccatcttctc ccaaacttga agtagctccc tcatcttcac ctattattat 300
catctctgaa gactctacaa agtcacgtc tggagaagat gttactctct ctgattcccc 360
tattttccat ctaataaatg aggaggatgc tcagactcgg gatacccagg atctgt 416

<210> 29181
<211> 367
<212> DNA
<213> Glycine max

<400> 29181

agctttcatc tagccaagtt tatacaaagg tggtacaaga gaacctaacg attcctaatt 60
atatgggcca tcaaattctat catgtgctga cagtaattga ttagcccatg aatctcctcg 120
ggggcagtac acacttcggc catggctttt gctttggcta acagacggg gaggtcttga 180

cttccattca aggtcaaggc gaacctatcc atccacatag tcgtttcttg atgcaacgca 240
tcaatcacc cccctcttgc ttctttttcg gcatacactt gtgcaaaatc ctccactagc 300
ttttgttcat gggccatgga ctgggttcaat tcttccttgc attgccctat gatagctagc 360
atgcttt 367

<210> 29182
<211> 420
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29182

tcaacatcag accacttcca ggggtgctggt tcttttactt ggatttgatg gggcctatgc 60
aagttgaaag ccttgaggga aagaggtatg cctatgttgc tgtggatgat ttctccagat 120
ttacctgngt aaactttatc agagagaaat cagaaacctt tgaagtattc aaagagttga 180
gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt gaccatggca 240
gagaatttga aaacagcagg ttcactgaat tctgcacatc tgaaggcatc actcatgagt 300
tctctgcagc cattacacca caacagaatg ggatagttga gaggaaaaac aggaccttgc 360
aagaggctgc tcgggtcatg cttcatgcc aagaacttcc ctataatctc tgggctgaag 420

<210> 29183
<211> 391
<212> DNA
<213> Glycine max
<400> 29183

ttctttccaa ccaaattcct gatagaggcc catttaatac ctatacccag ccctctaag 60
ttataggata agatattcat gtatgagctt tcttattacc caactccata gcttcctttt 120
tgtctctgga ttccatatta gcatagtgtt gaatacaatc agaatgttct gtttcagcct 180
ccatgcctat tctttttccc aaattctata gttgatgagc ctctccatc acctctgtgt 240
tacatataat cttacttttt aaccttctct ctgcttcaag atggctctag ttatgggcct 300
tgtcacattt atcaatagcg gcagccaagt cattatcttc ttcttgtagc tgaagttgat 360
cttccacagg ttgcaacata cggagtttat a 391

<210> 29184
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29184

 tcaagttgct aggatagcaa cgtgancggt ccttcagttc gtcttgagat gaaagctcca 60
 acaggcttct tttggttggg atgtgtgctc tatctcgcaa gattgcatgg tcaactagcag 120
 tcatattctc aatcaattcc atggcttctt caggggtctt caattttatt tttccccctg 180
 tagaagcatc taaaagttgc taggattgtg gccttaaccc gtcaatgaaa atatggagct 240
 ggattggctt tgaaaatcca tgagtaggcg tctttcttag taaccacga aatctttcca 300
 aagcctcact caaggactcg tctàgaaatt gatgaaagga tgagatgaca gctcttcctt 360
 cagcagtctt ggactctggg aagtatntct tcaagaaatt ttcaaccact tcat 414

<210> 29185
 <211> 408
 <212> DNA
 <213> Glycine max

 <400> 29185

 agcttttccc ttcgtagcat atagataaat gatgtttata tacttggttaa attaggtata 60
 tgtatccgcg ggtaagagat atataggaaa aataaaagaa aaaaaaatag attatgtgaa 120
 aataagacat taaattaaaa tactatgcaa atataattat aattgttaat agttatgact 180
 ttttaaactc cctaaactac agggatatcc ataactctta ttagttggta atcgacaccc 240
 atatcggcta ttaactattg tcttgtttat cataattaga caatgacttg acatcatcat 300
 aaataaagag aaaactagag ccaagatttg ggaggacac aactgatctt gacatttcat 360
 gatgcagatc aaatcatatg gaaggggcac atgacgtcaa taagcaat 408

<210> 29186
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29186

tgtgacanat ctcttgagaa aataaatatg ctcaatnntt tggtcttttt gaatncaana 60
gcaaaccaaa tgcaccttct ctaactcctt gatcataaag atctacttca gaagtgtccc 120
cttttgatc accatgataa acttctctgc ccatccaate cgtatcaaac agaaagaagg 180
gaaaccatga caactgcagg tagacaggat tgaaatgaac ataagaagga tttcaaatgg 240
gaagcaccaa cactaggcta atagcattca caacacaacc gacttgaaaa cacaaatctc 300
aacagaaaacc tttgcaaata aatactagta catacccaag tgagagccat tacaaccagg 360
acagaatgca tagcaggtgg caaatgcctt aaacttgtca acaagtttac caatactgct 420
ccaggcccat 430

<210> 29187
<211> 407
<212> DNA
<213> Glycine max

<400> 29187
agcttctaga gttaactaca tgaagttgcc tcggtaaaaa cgatgtcccag ccttcgttaa 60
cagttggatc ttctcgaaat ttggtttgca acttcacaag acaattgtcc atgatctgac 120
cgttgggatc tttgagaaga tgtctggagt gtgctagaag cttccgtttc cgagagcatc 180
tcttatttaa gcatctcagc ctttgctttc gtgtagctta ggaaaaacgt catttcttct 240
tctttctttc ttccaaagcc atttctaaag tcccaaacac tttctccatc acccatagcc 300
aacattagcc accacaaacc atcgttgttc tccattgaaa cccacaccg agaggaaccc 360
ttcaaccgaa gcggaatctt ccaacttggc ttgcggtttc agtagag 407

<210> 29188
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29188

ggtagagtta agtctcgtac tggtttaate tattacgggtt tattttntat tcgatnacat 60
tgnnggntga gacaatgatt gattttttca agagtctcta ctttaattga ttaccaagta 120
gattaatcga ttacttctct cttgtttaag ttgctcagaa gtgaacaaga acattttaat 180
cgattacctg ggatcatctaa tcaattacat tggtcttgag tggttttcca gatgttggac 240

ggacacttta attgattact tcattgaaat atttgattac tttatagatt ntatcgattg 300
 caagcgggta taactatttt ctctataaat aaccagcttg tgttcacatc tatacatcat 360
 gagatcatta gtgaacactc aatacatctc aaaaattact tcttagtctt agaatga 417

<210> 29189
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 29189

agcttgcttc atatatgtcc aggaaggaca aggcggccga aggaactagt tccgctcctg 60
 agtatgacag tcaccgcttt aggagcgtg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcatt tctctgggag caacgcgtcc agctcaggga tgacgagtat actgatttcc 180
 aggaggagat aggtcgccgg cgggtgggcat cactgggttac ccccatggcc aagttcgatc 240
 cagaagtagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgaggtcctg tgtgaggggt cagtggatcc cgttcgatgc agatgctatt ggccagctcc 360
 tgggatatcc gttagtgtg gaagagggcc aggagtgtga gtat 404

<210> 29190
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29190

cgcttccttg attccttttg ttcttcttta ctnccttttt ctcttngttt tctgcagctn 60
 gnaacttcta ggtaagtnta ttttaattga taatacatc tatgcatgtt taggttataa 120
 attttaagtg ttatgtgtta agtatgttta cgttaggctc gttttgtatg ttaatgttat 180
 gtatgttttag gtggtattta taaattttta gttgcaattc gaaatattaa tattatttat 240
 attatatgta tatgttataa ttttagtcag tatgttcgta tttatattat aggatacatt 300
 acagctagtt tatttggtta tattattagt ttgagttttg tattttatat agtagattag 360
 attcacctaa aagattatga atagcttaaa tttttatatg cgacatta 408

<210> 29191

<211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29191

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agctttgtta tgtcctctcc cctcggcggg gatttcttct tcggcaaagg cgagatagtt 60
gttggcagtg atattattga ccagccctcc gaaaccttct accgagatgt cttggggccac 120
atgggcctcg ttcaaaacct tcactagtag agcccgatga ggctcggagc tcatgagtaa 180
ctccaacagc gagaccctgg ccgggggtttt gttgtgctgt tcgataacct tgaattcgct 240
ctgctgaatt atacggagga actcactggc ttctcttagt gacacctcct ttttaccatc 300
ctttttctcc ggaagacctt tcgctgaat atctttattc gaagtgaggg gtgcttcgtc 360
atcttgttcc tccaccactt ttgctttccn cttgacgt 398
```

<210> 29192
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29192

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ctgatcaaat gactaaaatt aattggcaaa aaagatatnn atcngattgc caaaccaact 60
tcactattcc tagttagaaa ttccaatatt ctatattacc tgctcattag ctgtaggagg 120
aaggcctcca acatacacc gcctagcatg tcatgtagcc tgtaaattca gtacatcaaa 180
gataggccat aatcagggaa agtcatgcta aacttaaaat gaaacttaaa taagactgta 240
gtcagtctca gcaagcctcc atactcgga agactaaact taaaatgttg tgttgacaaa 300
gttagtgtgt ttctactctt tttctataat gactcttttt cttctcaatg aaagagaata 360
ttttctccca gcagcacagt gatactaaac aaacaaaagc gcaataaana gaaacacatg 420
taaaaagaa 429
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<210> 29193
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 29193

agtcttttag aaaaatggcc ttagcaaact tcttatttcc agaaggaaat tcaatcaata 60
 gacctccaat ctttaatgga gaggggtacc actactggaa aaccggaatg aaaattttta 120
 ttgaggcaat agacttaaata atttgggaag ccatagaaat agggccttat ataccacca 180
 cagtagaaag aatcacaata gatgggagca caacaagtga aagcataaca atagaaaaac 240
 ctagagatag atggtctgaa gaggatggaa gacgagtaca atacaattta aaagccaaaa 300
 acataattac atctccctgt ggaacggatg aatatttcag ggtttcaaata tgtaagagtg 360
 ctaaggaaat gtgggacact ctacaattaa cacatg 396

<210> 29194
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29194

tagaagagcg tcgaggagaa ggctttngta gtttgatatac atcttaagaa aatcttcgag 60
 ctgtactagg catgatcgta agaaaatata aaatttttaa attgttttta gttttcgtaa 120
 cttaacgttt tttcattttt tggttctgta atttttttt ctaattttta tccttatata 180
 ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240
 tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300
 atttgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360
 aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaaaca 410

<210> 29195
 <211> 355
 <212> DNA
 <213> Glycine max
 <400> 29195

ttgcttctta gtttcagatg atgcagatga gtttgtagct acctcatgca ctctctaat 60
 gactatagca tcatatttgg cgctaaactg ttgggagttg gaagccatct tctcaattaa 120
 atacctggct tcagcagggg tcatgtctcc aagggtcca cactggcag catctatcat 180
 acttctctcc atgttattga gtccttcata aaaatattgg agaagaagct gtcacaaat 240
 ctggtggtga aggcaactgg tgcataattt tttaaattct tcccaatatt catataggct 300

ttctccactg agttgcctaa tgcctaaaat atcctttctg atggccgcgg tccta 355

<210> 29196
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29196

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 aaacagctga aatgcatagc ataggggtca aggacccttt ggaatagccc acttccccta 120
 tttataggag aaagggggaa gaggttgctg ccagctcgc ccaagcgagc aggtggcttc 180
 ctttggaagt ttctgatgc acccccaaat tcataagttc cccccctttt tcgtatttta 240
 tggaaaagtt aaggaagtat tacggaagcc tatcagactt gattntattc tttttgtcc 300
 ttcctctcac caatcttaag tggaaaaggc ttaccaggg ttacggaaat tttacggaag 360
 cattacgaaa gcctcggagg tccattttca gaaaaagcag ggaggtgctt g 411

<210> 29197
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 29197

tgcttatatc ctcaggtagt tcagcaaata cttgcttcat ttctccaag ctcatatttt 60
 ccaaaatgga cggccttggg gcaaccctca caatctcgcc gcctttaggt tccttaactc 120
 gagectcggc tttaatgatt agttctgaat ttgagcttgc tccacattta attataaatg 180
 gtgaggtatt acccgtattg aattgaagga cgttccactg tgccacatca gttccagatc 240
 cagagcctgt atccgttgat ggcttgcgag aatgtgatag attctgaatg cggtcacctt 300
 cttcaggaat tgactgcac ataaaagagg gattaggaat cccaaaactc aattaaggtc 360
 acgctcagac acagattcag atgccagaaa tgctgagaca gga 403

<210> 29198
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 29198

tcttcatgag tatattataag ataagaaaat aagatgtata tttatttttc aatattaaac 60
tttcttacta aaattaaccc ttactttta gagaagttaa ataaataaat aaataaatct 120
ataaaagtta agggcattag ttgattttac tttataaaaa tttaatttat ttttaatttct 180
cattttcttc tcctacaagt agctaagtat ttctcctagc tagctaaata gtatgatttt 240
tcctttatatt atttgtaatg tctgtgatat gttgcaagtt tcatgactaa tcctgataaa 300
attcgaaaaa gccactagcc aagagatata aagaatgata atatgttgag tcctgcacat 360
aatgtttgaa cggacaggca aaagt 385

<210> 29199

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29199

tatgctttac ctgtcaggct aagcgccaat atgcttctat tttttagtcc tttgaataag 60
gctaagcgta gctgttgccg taagcccttg ttatgtgta aggagggtga gctaagcgtg 120
ccttgctgca ctaagctctg ttggatcaag tggcctcgga ataattaaga aggggggggtt 180
gaattaatta ttaacgaacc ttactaatt aaaaatctat cctttctaat gttaccaaaa 240
gtaaaagcaa taataaactg cacaacaaaa attaaagagt gtagggaaga agaagacaaa 300
cataagagtt ntatactggt tcggcaacaa cccgtgccta catccagtcc ccaagcgacc 360
tgcggtcctt gagattcttt tcaaccttgt aaagtccttt ac 402

<210> 29200

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29200

gaggattatg gggtagccat cacatgtggn actttgttgc ggtcgagcga ngngcacaa 60
caagntttcc acatgcacaa agcgcgcata aaccacat tccctggtgc ccaccttcaa 120
ctgagctcac gtactccac gtagcccata tcctcttttc tctcaacacc ggggtcccat 180

caatccttcc aagcgtttcc aacatcaaag cgaaacaaca ttcaaacagc acaagctatc 240
acagccaagc caaacagagc aaaggcggaa aactctgtca aaacaccaac caaaaacaca 300

<210> 29201
<211> 309
<212> DNA
<213> Glycine max

<400> 29201
tttcttttca tatgatggcc ctgacaacca tgttggcatc aacataaaca gcatcaattc 60
cattcaacag gatccattaa tcaacactgg ggtcaatgct acatcacgta taaatgtaac 120
attcaaaatt cagtatatga atgacatgat aacggatttt ggttccatga ctgggtttga 180
agaatctatg acgacccttt tggatatctc acgctcttaa tctatctaac tatcttcaag 240
aaggggtata ccttggatac tcatcgttta caactatcta cactgagctg aaccgtgcta 300
gatcatggg 309

<210> 29202
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29202

agtatcccat tattgtatac aattaatncc agcattttgt ctcttatctt ttggncacaa 60
agagaaggga ggatttctaa actttgttgc attacgttat atatataagt gcctacactt 120
gtcttttagtt atattagata tattaatata tgattagtta ttattgttat caattattatt 180
attattatta tatatatata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tcgctcttat atacaaacat tttgtgtgat cacatacgag gtacgcgtaa 300
aaatatttat gaaggaattg gaaatatcta tctatgggtga gggagacgcg tggattattt 360
ttctcatatg ggggagacct attcgctcc gtgtgcgcgt gggcgactc ccgttatata 420
gct 423

<210> 29203
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 29203

tgcttataaa gaaaaatgat ggcatgattt taacctaatc acactatatt gaaagctatt 60
 gaagaagttt aattattttg atgtgaaaca tgtgtctact tcttatgact catccatcaa 120
 gttaaagaaa aatttgagta aaggaatttc ttacataaaa tactctcaaa ttattgattc 180
 tttgttgcat ttgacaaact tctataggcc tgacattgca tatgtagttg gtagattaga 240
 aagggtatact aataattctg atcattctca ttggattaca ttagaaagag tttttagata 300
 cttaaaagga atcattaatt atggcattca ttatacatgt tttcctgcag taattgaagg 360
 gtttagcgat gcanattgga tttctaattc tgatg 395

<210> 29204
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29204

tgtagaagtg attgtgaata gtggggattg ttttttattt gtttgctttt ttgnttattt 60
 gtttgtttgt tataacttgt attagctagc ctaaaattgc tcaaccagac gaatgtatga 120
 ggtgcttaaa ttaagggttaa caattgcaaa tgttggtgaca cacaattcct gttgggcaaa 180
 gtgtcaagat tacaccaaaa tggctggctc gttctgatgt aattgtaaag catataagag 240
 catgctatgg gttagttata taaccaatga agtaaaatag caaacacgta gaagttggaa 300
 gtttgggtcaa agaataaac aatccggcaa ttattctatg caattgaata tacaacaag 360
 taagacaaga gttatacttt caactctatg tcatgcatgc ttgatgcttc 410

<210> 29205
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 29205

tatcttttat agatcaacaa tgagctgtcc gaaagacggc catcccggt cctctttact 60
 gctctccagg attggcatgt gcttctcatt gcttgctaac cctttgaact gtttttgtga 120
 tggttgctgc tgcatttgtg cagtgttaatt agccaatcag caagggtat gtactttctt 180

aaaatgaaca gcatacacata acaattaata tatacatacc aaagcccaaa gaaaaataag 240
 attttacagc caaaggatga aattttacggt ctgtctgttt tgagaaaatg ttctttgttt 300
 ccatttcctc ttttcacata taatttcaag gatgtacat tctttcactc cgtttccgat 360
 tttacagatc tatatcagtg atatgataaa gacaacatg 399

<210> 29206
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 29206

tgccagaagt tcttagttgg ggatgctggt tctgtttggt actaagatga tgaggaggcg 60
 gaggatgaag atgagctggt agataatgat tctgaagaat ctgaggagta taagttcttt 120
 gaaaaagtgt ttgcagaaga tgggtgacctt aggagatatt atgagaacaa tcacaaggaa 180
 ggagattttt attgtttggt ttgtgggggt attgggaaga aggtatggaa gaggtttaag 240
 gattgtattg gactaattca gcactccact gccatattaa ggacaagaag gaagcgagct 300
 cacagagcct atgcacaagt catctgcaa gttgtagggt gggatatcga tcaaagcca 360
 gctattgtgt taaaggattt ggattcctca ttggctggtt caaagaagct tttcgtga 418

<210> 29207
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29207

ttgtcattct ttcagagaga tgggtggacaa actactcaag gctcagttta tcagagaagt 60
 cagggtactct acctagatag ccaatgttgt catggtcaaa aaagccattg gcaaacggcg 120
 tatgtgcatt gactacacca acctcaacaa agtgtgcacc aaggacacat atgctttgcc 180
 cagcatcgac aggtactcg actacgtgcc tgtgttccaa gtactgagtt ttcttgatgt 240
 ctatttagga tacaacaaa tcagaatgca cccccagac aagagaacac aacattctta 300
 actgaagatg ataatttttg ctgtagggtc atgccctttg gctgatctt canacaacag 360
 atagaccata atcttgaggt ttatgtgaat gatatg 396

<210> 29208
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29208

ctaagcttcg gctgctaatt gctcatgmng cagttttttg gttatagnct gatggnggca 60
 gcagaggagc acaaaccaca gacccttgcg acaggtagag atntctgggt caaggccagt 120
 tgggttacca agttaaccaa tgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180
 gcagctgagt ttgtagctac cttatgcact cctctaata ga ctatagcatc atttatggcg 240
 ctaaactgct gggagttgga agccatcttc tcaattaaat ttctggcttc agcaagagtc 300
 atgtctccaa gggctccacc actagcagca tctatcatac ttctctccat attactgagt 360
 cttcataaaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaact 416

<210> 29209
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29209

agctttaga ggatgcttca acggaggaaa agaaagaggg agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa aaaaggagag aagttgaact ttgtgttggt tctcacaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
 ttccttgaga agctttctta agaaaacttc cttgagaagc tttcttaaga aaacttcctt 240
 gagaagcttc tttgagaaaa cttccttgag aagctagagt ttagctacac acacccatct 300
 aaaaactaag ctcacctcct tgagaagctt ccttgagaag ctagagctta gctacacacc 360
 cctataatag ctaagctcac ccncatgac 389

<210> 29210
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 29210

agcttttctca atattttaaac aattcgatct catttatcat gaaactaccc taaaccaaga 60
aaacagagta gaggcagaaa actctgccc aactaatcc aaataccaca gttttcccta 120
ctcaaatacc ccagtaaaat tctcttcggt ccggttcggt aaccattgga tcgccttgaa 180
aattttactg gaggtttctg gtacataaat ctacattttg accgttgga tctgctaaaa 240
catgcctgga acccgagatg tactactctt cccatgacta gcaatgcaca accatttttc 300
tgcactatgt taaaaaaact gctggcaca tttgacaaca t 341

<210> 29211
<211> 450
<212> DNA
<213> Glycine max

<400> 29211

gcttatgttg caaacattta taatagacct cctcaccagc aaaaccaaca acaacagaat 60
aattatgacc tttcaagcaa tagatacaat tcagggttga ggaatcatcc aaatctgaga 120
tggacaagtc ctccacaaca acaacaacag cctgtccctc cttttcagaa tgctgctggt 180
ccaagcaagc catatattcc tctccaatg cagcaacaac agtagtagtc acaacaaaaa 240
gcaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300
tgaaattctg atactgagga cagatgtcgt acaggatgtc acgacatcgc gcttcagaac 360
atgcagaatg tatatgacag tatgaacaga ttaaacaagt aaataacaca agagaattgt 420
aaccagttc ggtgaacgtc cctacatctg 450

<210> 29212
<211> 408
<212> DNA
<213> Glycine max

<400> 29212

agcttgact taactttgct tgcataattct gtgtaactct ggccaaaagt ctcaaccatc 60
aaatcctctt cttctctgct cttctgctta taatacaaca agcatactgc cacaataaat 120
agcagactca gagtgctcg aagcgcaatg cagtatgta caaacaaaag cattgttgat 180
gaatatattg gatgacggac ccaacgataa ggtccaaatt gcactacaga agttggctcc 240
accacatttt ctgaatactt agcgagatac aatgtagcat tatactgcat tagcagagtt 300

gtaatgatta aagcccagat tccaagattg ctccaccac cgggtatgag gtgaagctca 360
ggcccttcaa atgctgcaag ccaatggcca accatgactc ctgtgctg 408

<210> 29213
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29213

gcttaatggc ttctcgacat anactattaa aacgtacagt gagaatTTTT atgtcaattg 60
tatctgttat nttttcatca gttccaatat cagatTTTgc attccttgtc catcgTTTca 120
aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180
aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240
tatttaatgt gaccatgtat gccttggtgat catgtacata ttttgcaacc ctgtatttac 300
tgatcacacc atcatcctca acattatttg cagtataagc aaaagTTTcc accagttcct 360
cctgagattc tgcaaaaatc ttcttagtgt acatatttg tgcttggtgt tccattgggtg 420
atggagtctt cagtacaggt gtgttacaaa tagtctcata atct 464

<210> 29214
<211> 404
<212> DNA
<213> Glycine max

<400> 29214

agcttttcta tggattgact agcatatata ttcattgaga agaaacgaga gagaattcaa 60
gagaaatact actgagtgaa acacaatgct tattgagtct attctttgct tagcaaagat 120
tttgttccga gtcttacatc attgtaaaca cattccttga gtgttaagat ctgtaattct 180
ttgaactggg ggtttatgaa aattaggagt gtcgtagtaa caaaacaata tttgggtggt 240
cttaaattca gggggaatct aagaattagg ctaatgggtg cctagagagt acttgtaaaa 300
tcaagaatgt cagattaaaa tactagttag aatattaatt aatagaaccc ttacaattt 360
gagtgaacta gtataaatta agtgtttcta ctattctcct taag 404

<210> 29215
<211> 341

<212> DNA
<213> Glycine max

<400> 29215

ctctcttaca gcttataagc actccacttg ctacataact ctcggttgaa aaaaacataa 60
gggccaactt ggttaatctc ttgcgcaggc accagcttca agctttccaa cacaacaaca 120
gtggcggctc aaacagcaag aacggctctc aagactctct tctacttgca tttgctccta 180
gttgacgcct tgggtgacttt ccttaccata tatggacctg tctctgattc tcacaccac 240
ccattccacc ccatgaaatg gtaccctcca cttcttgcac caacagcatg tgctggaatt 300
gttggtctca catggcaatg gatcactgag agccactcca c 341

<210> 29216
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29216

agcttttagac atctttatctt gatttctttg ttcactctgag tattttttgtg tagcttcatc 60
aaggtaaagg ggggtctttcc acttttttgaa ccctgatctt attatctttg gaagctagac 120
ttcattgcat gttgtgttga tgttccaaat tcgtagctac tgccttggtt ggatctaagt 180
gatatgaggt tttttattga aatttttaagg ttaaaaatgt gttcattgag tgtcaaaact 240
tatgggttagc cttaaatctc acctggatca aagttttcta gcaaaaagtta tgaacaaaac 300
aagtttaagg atatttttat aagattaaat ctgtcacaaa attaaactgg ttaatgggtg 360
tatcattatt tttcttaaag atttgactnt aaatatgagt ttgata 406

<210> 29217
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29217

cactcacgct tctgtgggta tggaataatc aattatcaaa tgtggtaatc gattattnta 60
acacacttag attttctaataaagtttcca acaaaaatct aattgattac taaatgtagt 120
aatggattat ctcgagccat aaagtcttca ttctactgaa acatacatat gtaatcaatt 180

attgaaactg gcaattgatt aattcggcta ttcttgccac atttcaagta gaagggagct 240
atgctgctta ttctaact ntgtaattga gtattaaact ctgtaatcga ctacattata 300
ttgaactcac tgcttctaag aaactttgag atcaattcat taatctccca tgtttgattt 360
ctactaagca tggatataag aaaactaaga ctaaatacat catcatgcct agtctaagaa 420
catnccatac aaacaccaca tcttttaaaa cttggctgac attgtaaaa 469

<210> 29218
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29218

agctagtcca ctgatactcg ggatccttag aggaccgccg tttcagcttt tgaaagacag 60
cgaaaccgct cagaggagca tgattgccct gacttcatac aaaaagcagc tgatctggcc 120
gtgacttcaa catgctacac aactatgtca tcattgcact cccatgccac tccaccatcg 180
tgacgagcga tattgatata acatacgtct gggtcataac gaaaggcttt tattacaaaa 240
aaatacattc ccctacttan ggatgggctt 270

<210> 29219
<211> 288
<212> DNA
<213> Glycine max
<400> 29219

cgtattcaag cttgtcaccc atttcgccca ggcgagcaag gatgcttccct ccagaaacaa 60
cagcettctg aaggaatctt ctggacggcc cacgtgggcc tggacgctat ttgcaccctc 120
ctttatacta aatgcacccc cttctatctt tttgtaattc tttatccgat acgctacgaa 180
actttacgaa ttgcatagcg atacttatto tacttccgca ccgttacgaa tccttacgga 240
atatgtatat actcttatgt acctctctaa cgatgtacag aaactcac 288

<210> 29220
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29220

ntntacagta ctgaaattta aatgctgaaa ttttaagaac tgaattataa tttctgaaat 60
ttaaattgaca taaatcataa aataacttan aataaactaa agtggttcaaa atgcaaaaat 120
ttaaactgtct tgctcctcct gtggctgggtc tttattaaga tccagtgtctg gagctgtctga 180
tgaatcctgg ataagctgct ctggctccgc aactgggtgta gatggctang tctcctcang 240
agcatgtgca gaggatggct ggggtctcctc aagagcaggt gcagaggatg gctccggtat 300
ctgatctgtg ggggtaccct tcttctgagg catgtgtgta tatgcatcaa aataaaaggg 360
ctcgggaggg atgagctca 379

<210> 29221
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29221

agctttgaat ggangetctg gtctcttgtt gaaactgcat gttttgcata gtcatttgcc 60
tcacaagttc ttcaagggaa ggttgcgaa gagcctcaac tggttgctgt tcttggggct 120
gttgctgttg ttgttgctgg attggtggag gaatgtatgg tctgcttggg gcaatagcat 180
tttgaaaata agattgttgt tgctgctgtt tgggatgatt cctccaccog agattgtacc 240
tggttggtgga gaggtcataa ttgttctgtt gtggctgatt ttgctgctga ggttgaggag 300
gtctattgta gatgtttgca gcataagctt caagctgttc aattgcttca gattgttgca 360
cagaagggca aaggtctgtg tgggtggtctg c 391

<210> 29222
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29222

tctaaactnt gtacaagaat gaagctctga taccacttgt ctctgttatc ttaagaaggg 60
gggggggggtt gaattaagat attccaaact gtttccccta attaaaaatc tatttcactt 120
tttactcaag ttatgaattc ccaatgacaa tcttcttaaa tattaattca aatgaaacaa 180

tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag aaaatgcaaa 240
ctcagtttta tactgattcg gccacacct tgtgcctacg tccagtcccc aagcaacccg 300
cttgagagtt ccactatctt gtaaattcct tttacaattt ctaaacacac aaggacaatc 360
cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta atcccttana 420
gaatgagaag aagaagaaga acaaatctc 449

<210> 29223
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29223

cttgcacttt ttgtttcctt gaggcctttt gttgaatttc gagcgagaat tgccctaaa 60
agaatcttct ttagtgatgt gatagttctg gaaactaatg gaggaagca tcaatagagg 120
ggaatatcaa cctaatttgg ctaaacagtc ttctttgaga ttaggtggca gttttaaatc 180
aacattgtct ggaagatcaa atcctcgaaa ttccccttca ttccggcggc ttaattctgt 240
gcgaacgcca agaaaagaag gaaggatcag cgtaggcggg gcaactgtggg ttccggagcaa 300
tcatttactt ttgtggctgc ttctaatac cctctgggct tatcttggat cttntgttca 360
gtccagggtg gtcatagtg ataagaagga agaatttct 399

<210> 29224
<211> 459
<212> DNA
<213> Glycine max

<400> 29224

actaagcttg ccgacgtgtg ccaatatgca tcttgccaaa ctagtcaatt cctaatactt 60
aaaaaaaaatt aagaatatca cctttttgcg cttcttattt agcaccttcc aaaagacatg 120
cacatccaag atatataatt ttcataataa ttaatgtatt tttcaagcat tcgttcatat 180
catgttccgt gtctttatgt attttgtttt tagtactttt agcatgtcgt gttgtgccta 240
actccaattt gagaatataa caaacagtac ttttaacctata tgctgcag gatgatcaac 300
ttgcactcca caatccacac ctaagtttag tactgtagtt aattaatgaa tgcagcacta 360

taaatgcacc catcagcaag taaaaactaa ttaaattaaa cttaagatag taaaataaca 420
aagtcttatc tcactaaata aagtaagtgt tgatgcctc 459

<210> 29225
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29225

agcttttttac actgacaatt atagaaaaat tatgcttctg ggtaggtaa aactacatgt 60
aaaagttaat aagaagtcag cctgtagcgt caatgaatta gtttcatgta atgcatataa 120
ttacataaaa ttaaaataaa acataaatct tagcagttgt ctcaaactga tggatttttg 180
ttttgttcat gacatggctc gtaacaaagc tagatgaaat catgaagcca acaaatgagc 240
ttcacttata accagaactt aatggcaagg gcatttgaaa taggacagaa ccaggcaaatt 300
acaaaacgtg taatgggaac ttagtgagta ctacttgtag ctaacatttt ttatatatat 360
taataggatn tttcttatgc agctntaaac acttaatta 399

<210> 29226
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29226

ttcttctct agcttcccaa ggaagctacc ttccttgctt ctcatgaag attcccatgt 60
gctaggctat aaatagaaac atgtgtaaca cttgtcataa ctttaatgaa tgagaaacac 120
gtgagacaca cttcaaagtt caacttctct ccctaattct cttcaattcc catccccctc 180
tctctctctc attctcttcc tccattgaag cttcctttct aagcttctta tccaaggcat 240
tctcttggtg gtgaatgatg caatcctacc cccccaaggg cattgtatag aggactccaa 300
gaagattgag ctagagatac aagagaaggc cataagggtc tcatgagcct tanggtagac 360
ttcggggcca tgggctacgt atgagtcac ttatctttat acatattaga ttaagggttc 420
atta 424

<210> 29227

<211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29227

atttangatt atggggaacc cgtcacatgt gtgactacgt gacggcctgg cgatggtgca 60
 agtcgactat ccacatgcgc gaatcacgca tgaattcacc atccccagat gccaaccttc 120
 aactgaactc acgtactcct acgtagccct tatcctctat actctcaaca ccgggtcccc 180
 ataaatccat tcaagcttcc ataacattcg agcaatatcg aaatccagac atcatgaact 240
 atcagagcca agcaagacac ggcataggca gaatactctg accaaaacac agaccgatac 300
 cacagctttt cttagtcata gaccccgagt acattctctt cattccaata cggtcgacgc 360
 tggatcgact cagaaattat actggaagtc n 391

<210> 29228
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29228

tcttatccaa ggctcatctc ggtggtgaag ctcttcttc catgtcttat tccatagtgg 60
 atggcgccctn ctctcacctc ttctnctttg tcttccactg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ccacaagcaa 180
 acttccatca tattcttcca ccggggattg tatctattgc tggagaggtc ataattgttc 240
 tgggtggtgga ttttgtgtct gagtttgagg aggtctattg tagatgtttg cagcataagc 300
 tt 302

<210> 29229
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29229

tttagctttt agaatggcta gacataatac atggcgaggat ttggtttggt tcaaggataa 60
 aagggatgcc ccacattatt tccatgacac aaatgcaaaa atgatgattt ggaaacttta 120

tgcaaaactg gtcttgcacg cacctatgtg gacactcaag tgtcaaattt ttatgggtcat 180
 gtgatgctag ggctcacgat tcatttcctc tatttttaa at caacccaatg tttccaaaat 240
 atgttctttt atcaatttgt gtattcatcc gagtccactt tgggtacttg ggaaaatttc 300
 acagcattca ccttcaggt gtacacacan tgtttttcca aaaactagct atgatcagcg 360
 aattcttttt caaagaagag ttggaagtca tc 392

<210> 29230
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29230

tgtgtcgatc ccacatattg gagcattctc gcanaatata cttactctaa ctgggtctcc 60
 ctatgagtnt acttagtgag agtgacttga cttaccatt gtgaggcatg tcttgtcatg 120
 tactcctaag cgctaaacaa ggtttttcaa tgaaaatgg accacattgc atgtaggctt 180
 gagtctagt catctatttc ataactcttg tgtttgaatt tcattgagtt aatgattgag 240
 gttttggtgt taatttttgg agtgtgtgaa cttgaataag tgtgaataat gtgtgtgatt 300
 ttgtgaagt atgttgtctg tgtacattca gctctaagta ttatattctt tacatgctct 360
 agtgttttat tatatacgaa tgtgataact cattccccgt gtctgtctgt gtttgggcta 420

<210> 29231
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29231

agcttttaag cattgtcata catgtaggat tattgggata ttatatttat ctgctcaaat 60
 gagagcattc aacttcaggt cggggcgaag ccagggtgtg attaggggaat gccatggcca 120
 cctccaaaat ttaaaacttt tttttatata aaactatatt atgtttgtat catcgtatat 180
 ttgtttgat ttaatgtact atttttactt cctcatagt atatatctgta cattattgta 240
 gtaaagctaa taccttctaa agtggttaca atttgactaa cttctctttc tctaccatat 300
 agtcttttgg atgcaaatga tccttagtga gggtattggg aagatgtggg aaatctcta 359

<210> 29232
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29232

tacaattaat atagaaccta taccctaagt tcacatccta ttagagcgtn gngttccctg 60
 ttttctctag catgagggtt' ttcatagtca tccacctatt catctgctcc cccgaacaca 120
 agttcaagat catcacagga tccagacaca acaacacaca gggagtgagt tatcacattc 180
 ctagctaata gagaaacaag acagttaaat atacatatta tataaatgag ataccacttg 240
 cttaaacata gctcacgtaa cttcaccact tcgtcattca aaattcactt ttcaattatc 300
 aatcacatta cacaagaatc ccacacttcg atcaagatat aataacacat caattagcaa 360
 gcatatgcaa tagttatgct aagacttaat cctatatgca atgtgggtacc atgtcagtga 420
 aaaaccaccc tggggcgctt aggagtacat aacaagacac accaca 466

<210> 29233
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 29233

agcttgtatt ggggtcttgat cggatttagc aaaaattgct cacgtttaat tcggattcaa 60
 aattttaagt tgaagtcccta catttttagtt tgggccaacc aacctagcta gctaaaccca 120
 ttttgccacc tcttatttga ccaaactatt ttagacgtgg taacaaatag taagtcggca 180
 tggcaatgta tgatttatta cctcatgatt tatatataaa tagataaaact aaaatgggta 240
 cgttttatgt gaatgttttt tcttattttt caatagaatc ttctccatct gagtatcctc 300
 agcatagtct cgcttggtgt caattcttta acacaagtga acataacgaa tataataaac 360
 tctttagtagac tgtgatacaa tcaat 385

<210> 29234
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29234

taacacatgg agganntttc aatttgtgga agcatgctac tgagttcttg cctgcattgg 60

tatttaggtc ttttgagttt cctttaactg agactgaatg agtgaatgta catgtttaat 120

agatttgaaa aagaaaaaat gaaaatttcc taaattttta atacttttta ttagtatatt 180

gtaggacatg actcaagcaa cctctactca ngacagcaaa ggatcttcat ggatttgagt 240

ggaagttaa gcgtgcatac acatacatat atgggtaaat tggttttgat atgagcagta 300

aattttagtt gcttgttcaa attctgaatg aatgaatgaa tattgtgatt ngcatcanat 360

gaagaatgct agagacatag tactcatatc tgctttatta ctggtgaatt ttcttatccc 420

tttcattaat gtgata 436

<210> 29235

<211> 405

<212> DNA

<213> Glycine max

<400> 29235

agcttttttg aaatcttgat gccttagtca acctagtaac tcagcttgcc ataaataaaa 60

aatctgcata tgcatactatt actgttgcaa gactctgtgg tctatgttct tttgttgatc 120

accatacaga tctctgtcct tctttgcagc aatttggagt caatgagcaa cctgaagcct 180

atgctgcaaa catTTataat agatcccctc agcagcaaaa ccaacaatag tagaataatt 240

atgatctttc aagcaacaga tacaatctat gttggaggaa tcatccaaat ctgagatggg 300

caaatcctcc acagcaacaa cagcctgtcc ctcccttcca gaatactact ggtccaagca 360

ggccatatgt tcctcctcca atgcagcagc aacaacaaag acaac 405

<210> 29236

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29236

gctgctttnt gcaattctaa gacactagag agcttncaag tatatgactt gtcccacggt 60

gatcttttct atctaatatg catcctgcaa aatcagaata tgaaaaacct gtcagtgtta 120

aggaagtacc tttaggatac cacataagca aacacttacc atgatatcca atctacttgc 180

aattaagcaa agaagtgatt caatcatacc tttgtatctt gaatgatgca ctaatttacc 240
 tttctcatca aaggcaaggt atgttgatgt agacatanga gcatatgctt ctttgcattt 300
 cttcatacca aattttcttta tcggntttat gcaatatctg gtttgactga agaaagttcc 360
 atgtttcaat cgcttgactc tgagtcctat aaagaaatct aattctccca tcatagactt 420
 ctcaaagtct ttcagcatat aacatgacca ttccttgca 459

<210> 29237
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 29237

agcttttctc tgcttttgaa tggggaatgt cctgaatata aatctgttca tagggaaagg 60
 aaataaccat aagaaacttg actatttcaa gtaaataatc aatatcatat tcaatgtagt 120
 ataaaataca aaatgagaga aaaaaaatc attctcatat acacctattc aaaacacaac 180
 agaatataga gtttggcata acattgttat atacatataa acaagattcc aacctatatt 240
 agtatcaagt atggaataag cctagtcaat ttcaatggca attatgggac gcaaatcatt 300
 gtagttaaca cagcttccaa aatcaggtag aagaagctca gtttttataa agaaattgaa 360
 gaggttagta aataactcga gaaacctcct ttcaactatg ctagacaa 408

<210> 29238
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29238

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 tgtggttatt gccatgaatt tgccgggtgaa caaaagatat ggctagttgt atatggatct 120
 agaaattaga aaaaccatat aaaatagggt atgaaaggac tctagtagct atcttaggat 180
 tatattttga aataggaaac taatttgact gcacagctca tgttatttcg tgtgacttca 240
 gtcggagtag aatgttaatg agttcttttg gcctgttatc ttttattaat attgcccggg 300
 gtttcttggt acaacaatgg tcggccttac ggtttccgtg atttaaaaga ggatagccgt 360

ccatgatcca tgatecatga tgaagcattt attttaaaga aggggtgcagt gtggttaagg 420
gaaagataga tggaaatttt atacactaat atattaacac acca 464

<210> 29239
<211> 409
<212> DNA
<213> Glycine max

<400> 29239

agctttatga caagtctata cgtgggtatct tccttgggta tagcaatatc tctaagggct 60
atcgtgtcta caacttgcaa actaagaaac tcgtcatcag tagagatggt gaagttgatg 120
agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt ataccgctc 180
aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240
aacaacaaga tcaagaacta tcataccag agtctactcc aagacgaggt atcttctttt 300
ggtagacata tatgaaacct gtaacttggc cactattgaa cttggaagct ttgaggaagc 360
gtcaaagtag gaagtatggg tcaaggcaat ggaagaagag atacaaatg 409

<210> 29240
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29240

tctcatagac tntctgagat gtttagggat gcccgaaatg aaaattaaag gccatattgg 60
attggagatc gtgtctggaa tgatctgtta tcacattggc atgcacctga atatcgttcc 120
aagtgtgcac atgccaaaat aaatcgagca tcttaaaagg gtaggtgtat gcacacaggt 180
gattctatca gcttcagga tcatgccatt tgcttgggtat gtacattagc aatataatac 240
atagttgttt atacttgttt aacttaccac ttaatgttta ttttttaatg tttgttaata 300
gttagaggaa cttggctgat ctgtatatgt agatgaggtc tttcagcaca gtcatttacg 360
aaaggatact ggtcaatttg tcgatgatag atctaaacgg acacatgtga gaccattatc 420
ttgcatatgt tttctattct tttanatggt tattata 457

<210> 29241
<211> 399

<212> DNA
<213> Glycine max

<400> 29241

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agctgtgaaa agtgttggtta ttcaccttct cgctaagcca atctgtcgtg ctatacatct 60
ttttcattcc tttctccctt tcccgaagag aattcgccga ggactaaccg cctgaattct 120
ttttgtgtct ctcttctccc ttttccaaaa gaacgaagga ctaaccgect gaattgtggt 180
gtgtctccct tctccctttt caaagaattc agaatgacac agcctgagaa ttcttttgat 240
tcttcccttt cccatgaacc aaagatttca aagaactaac cgcttgacat atcttttggt 300
tccacttcac aaagtttaaa ggactaagtg cctgagaact ttgtcttaac acataggagg 360
atacatcctg tgtggtataa ggagagggta catctactt 399
```

<210> 29242
<211> 250
<212> DNA
<213> Glycine max

<400> 29242

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ttatacaatc aacatacaac ctatctccta atgtcacaac caatcttatt gaactgttta 60
aatctagcaa gagcgggcag atgctgataa ctatgcacct atcactaacg tatacccgag 120
cacttggttac tgatcatcac cagatacatt ctcttcgttc cacatggaga gacgtaggat 180
atacttagat attatagagg aggtacctag tacactagtc tacatattga ccgtagagat 240
ctggtttgaa 250
```

<210> 29243
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29243

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agcttttttag tcttatctga tgaagatgaa ttcgtggcta cttcatgcac tcctttaatg 60
acaatagcat cacttctggc actaaattac tggtagtttg aagccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tgttactgag tccttcatta aaatattgga gaagaggctg ctcagaaatc 240
```


tggcggtgag gacaactggc acataagttc ttaaatatct cccagtattc atataagctc 300
tctccactga gtngcctaat tcttgaaata tcatttttga t 341

<210> 29244
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29244

tgtaggatta tggngtacct atcacatgtg gttcttgtgg cggtcgggcg atggtgcaaa 60
acaagttctc cacatccaca aatcatgtac aaccaccat cccctgttgc ccacctccaa 120
ctgagctcac gtactcccac gtagccctta tctcgttcc tctcaacgcc gagtccccat 180
caatcctccc aagcttccac aacatccaag taattccaca tccaatcatc atggactaac 240
aaaatcaagc aaaacagggc aaaggcaaaa aactctgccc aaaatacaac tcanattcac 300
agcttttcac atgcaaatac cccagtaaca ttctcttctg tccgattcgt taaccgttgg 360
atcgaactcg aaaatttacc ggaagtctct agtacataag tctacattnt gaccgttggg 420
atctgctagc anatgtccag aacctcatat gtactac 457

<210> 29245
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29245

agcttttcan gaatcactca ttcccatgc atcatctttt ttaaccaacc attgctcttt 60
gccctcatca gcgctcagga tggtacacat gatgccactt tcatacatgg tcatgatagg 120
attactagat aagaaaataa caaatgactt ttcttgtaaa attcattctc agtcttttat 180
atttttttat tagattgaaa aacattagat ttatcataaa tttttagaaa agttacgttg 240
ttggaatgta acaacgtctg tggcgtaaac gtttctcttg cgacggaatg agatgacagc 300
catgagacaa ctttcataca tggatcatagc aagaaggatc agtaaatata aaggaacttt 360
cttatagtaa ttctaatct tctacataat 390

<210> 29246

<211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29246

attcatataa tatagtttct cgaatttctt gctgatgttg tatatgatca aataagaggt 60
 tatcatgcac ggatatccca tatggctaac gcatgatata tgataataag tgacgatatt 120
 attgttgctc taagatccaa gtatagtaag agccttgcta gattgaccag ccacgtattg 180
 agaagccttg cacgccttta tgaggatgca ttataacggg atagggtcgac atcgaacttg 240
 tcgatgatcg tgactgttat ccatatgctc gatacccata caagcaagcc caagaggagt 300
 acggccgtga aacaaagcat atattangca tgatactata ctaagcagcc ttcctttgct 360
 cgactatata tgagt 375

<210> 29247
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29247

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 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tagttccgtg aagaaaatcc 120
 aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaagggttt cgaccgttct 180
 tcgacgttct tcattcggtc ttcattcttc aacgggtaag tacctcatac caagcttttt 240
 aattcattct atgtaccgtt ggtgggtccac cttttgtttc atgtatttat attctcattt 300
 tcattttactt tttatacccc cttttgacgt gcttaagcca tntatntaag tcattttctcg 360
 cttaatctaa anataaaaata aatctccacc gatc 394

<210> 29248
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29248

ctcagcttga gctaaatccg actcaccata accttgccca ggtgatatgt aatccttacc 60

ctcggaagca agaagaata gaagggaat ttccaatcaa aaaaaaaaaa aaagagacgg 120
 aaaattccca atgaatgaga acaaagaaat gataggaatt tcccattcaa agagtgggag 180
 aaagccaaag gataagaagg aacattccca accaaagaat gggaaaagta aaaacgaaaa 240
 gaataaagct cccgggtcaaa gaaactagag gaaatgtgca gaaaggtctt ttgaccagac 300
 aatatctgaa caatacacia ttgtcaccat atgaacataa taggagggaa cggaacccac 360
 gacctanaat ggtctcctgc ctttaattac caaccaaata tcc . 403

<210> 29249
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 29249

agctattgag aggtgctaata accttctctca aacgtaaata caactcccgga acttagaatt 60
 ttcattttga ccggtttcct ttgggtttcc cgacgttttc cacaaataaa cattggtggc 120
 gactccgctc atctttcctc ctttggaaag cgcacccgtg agcctcgcct cgatcgcccg 180
 caaaagggca cattgcgaca aggtccaatg ccttaatgtt tctctcttct cataaccaag 240
 agatcgtaaa agatccagtc ccttaaatgt ttctctcctt ttaaaaaaca agagatcggt 300
 aaagggtcaa cgccttaatg tttctctcct cccaaaaaag agatcgtaaa cgggtccaatg 360
 ccttaacatt tctctccttt caaaaatcaa gacatc 396

<210> 29250
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29250

tagctacaca tacctctcta atagctaagc tcactcncgt gagattagaa gctagagctt 60
 agctacacac cccctataat agctaagctc acccccatga gaaaaaacat ganaataaca 120
 aaaaaagtc ttattacaaa gacaactcag aatgccccga aatacaaggc taaaacccta 180
 tactactaga atggccaaaa tacacggcct agacgaagga naaacctatt ctaatatatta 240
 caagataag cggggtcata cttagcccat gggctcgaaa tctaccctaa ggctcatgag 300

aaccctaggg cctttccttg gatctctagc ccaatctact tggagtcttc tagccaatgc 360
 ccttgcgggg taggattgca tcacgagttg cttcaaggat ttccttggtc ttgtctttgg 420
 atgcctgttc caagtctatg 440

<210> 29251
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 29251

ctataaatag ggggagaagt gaagtgaaaa agggttcagc cccttacgca cttctctctc 60
 tatcgaattt gcttggaac atcgtctccg tgaagaaaat gtatgccgag gcgcttacga 120
 tacgttggcg taacgttttc gtaaagaata tcgcgaaagt ctcgatcatt cttcgactct 180
 cttcatcggt cttcggactt cgacgggtaa gaacctcgaa ccaagcttat cgattcattc 240
 tatgtaccgc tggcgcgcca cat 263

<210> 29252
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29252

ncggccgggc ttacccatgt taatgatncn ctgcatnacg gacctatgaa actaagcttg 60
 ccgcagctcg ccagacgaca ttgttgcttc tttcaatatt aaaccttttg gaggaagggc 120
 ctagaacgcc caagtgggccc agcattgcta tttggcacc cttttttact aaatgcacac 180
 cttctattat tttggtaatt ctttttccgt aacgttacga aactttatga actttgtaac 240
 gatacttatt tacctttcct aaagttacga atcttttccg attatgcatt tactcttttt 300
 tcacctttcg aaaagatacc ggaaccacaca gattgcgcaa aaacatctct tttcaattcc 360
 gccacttacc gaattcacgg atcgcacagc cttgttcttt tgattaccag atgttctgga 420
 ctcattattg tgcacaaagg tcctaacca tcaacctgnt gccatcggtc atgcatcagt 480
 atact 485

<210> 29253
 <211> 390

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29253

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agcttttctt caaggcattg ttagaaagat ctagagtttt aagcctagaa aggtttccta 60
tttcatttgg gatagctcca ctaaactagt tatgactaag agaaatgtct gtgagttcac 120
tgaagccacc catgtggaag caatgccttc caaggttatt ttgatgatgc caaagaatca 180
agagttaagc aaattccaaa gattcaagaa tgaatttttc aagaatcaag tttcaagaat 240
caagattcaa gaataatcaa gatcaagatt caagattcaa gatttaagaa tcaattaaga 300
taagtattaa aaaagttttt caaaacattg agtagcacat gaagttttca canaatcttt 360
taccaaggag ttttactctc tggtaatcga 390
```

<210> 29254
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29254

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tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgttttcttaa acctccatta 60
attntttgat ttaccttctc ttccattgnt gntttctcat ttttttctc catgtatctc 120
ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagtttcca ccgattaaac 180
ttgctataga agctagatth gattttctat gggtcaaatt tggtgttctt gttcttgaac 240
cataaattgt gttgagttta gggttccttg agttntgtct tggtattttt tttggctgaa 300
acctaaacca taaaattctt acaaaaatat taaagtagaa gaaaacctca aaaatctaga 360
gtgacttggt cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgct 420
acataagatt tcttatg 437
```

<210> 29255
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29255

agacaagaat ttattatagc actagccaag ctataaaaag aatgctatga tgccagatag 240
gcaattcaag ggaatctttt gattacattc aagtgcatac aaaatggtag actgtagatc 300
cagatgatgc attattaata gttacatttc tcacccagct tccacaaact cagcactctt 360
acagannatg atatntanga atcctaaaagt tcatcactat gctttttttt 409

<210> 29258
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29258

tagcatgaat aagacaaaag actcaagact tgcttttttta gtttgaatga ttttgtgatg 60
gtgtcngnnt nntagcgcta gcaatcgtct ttgcagcagt ggatcgtgaa tgaagattct 120
cttgttttctt tagagattnc agcaatgaaa ttcaactctg aagggtggtga gtatatatta 180
aatatggcag caagttgttt aatttgcaac ttttgcggt tctgtattct aataattttc 240
tttgagtctg cagatcatat atatgttttt ggtgtaacgc aactgtccta gatttcaccg 300
tctcttgctt gtaaagtcac cgatcaacac ttgtttctca ccaatctctg catataactc 360
aattccttga atcttctgca agagaggtaa gcttacgttt gctcatttcc tatttgcatg 420
gatatgttca gtccaaaatc caaatcaatg gt 452

<210> 29259
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29259

agctttttaag ctctgtttcg cctcttcaca atatgagggc cttacggggt ctcttttcaa 60
actcatgcag aaaggaatag taagccaata cctgtcagag ttcgaggaac tcatgaatcg 120
cgtcattggg cttcctccat cctttctcct aagttgtttt gtctccggtc tctctccoga 180
catccgccgt gaagttcaaa tcaccaacc gttgacagtg gccaggttt ctggtcttgc 240
gcgcctgcag gaggagaaac tcttgatca tcggccacca ccaccgcgac cacaaccacc 300
accctcaacc ataccacccc ctcaaatcc ttccttgcca ccactattac cctccccacc 360

ccggccccct ccacaacaac caccncaac actaaagcg

399

<210> 29260
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29260

agcttgatga taaagtcacg ccacatattc taattgggta tcaactcaact aaaggctaca 60
agttgtatga tccaagaagt cgtcaagtgt ccattagcag ggatgttata tatgatgaaa 120
atggaagctg gaattggaat tcaacctcta gtgaaagtca gtccaggata ctgttagaag 180
aagaaacacc ttcaactgca ccaactgtta acaaagttcc tggcataaga agatcatcaa 240
ggagaagtca actgccatta cctttgaggg actatgagtt gtttcaagat tcataagtca 300
acttagaggg agaattgggt cattntgcac tcatagtaga agttgaacct attgaatttg 360
acaaagtagt gactaatgag atgcggctga aagctatg 398

<210> 29261
<211> 462
<212> DNA
<213> Glycine max

<400> 29261

gcttgaaggt gtgtagccca ccatcttttc atagtagaat actggtaatg tgtctactat 60
tattgttatt attgttttct ccgtcattga ggtgccactt gagctgcca gtctctccac 120
ctttgggcgt attcttttga aagattcgtg cccccctttt gcacatgttc tgtagttgca 180
tcctatctga agacattata ctgacactgc ctaacgaagg caaccactag gtccttccaa 240
gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc agtaagactt 300
tcttgaagg aatgtataag caattcctca tcttttgcgt atgcctccat cttctgataa 360
tacatcttta gatggttctt ggggcaagta gtccacttgt acttgtcaaa gtccagcacc 420
ttgaatttgg gaggggtgat gatattgggt actacgaaca ac 462

<210> 29262
<211> 399
<212> DNA
<213> Glycine max

<400> 29262

agcttctgta ttctttttcg attttctcga tatattacgg gactcaatca gacatccgag 60

taaaaagtta ttgtcgtttg aatttgctca gagcttcgat aatcaattcc gagcatctcg 120

atatattacg ggactcagtc agacaaccga gtgaaaagt attgtcgttt gaatttgctc 180

agagcttggg tattcaattt ccagcgtctc gacatattac ggtactcaat cagacatctg 240

agtaaaaact taatgtcgtt ttagttttct tagagcttcg gtatttaatt tcgagcctct 300

cgatatatta taggactcca tcagacattt gagtaaaaaa gttattgtca tttgaatttg 360

ctcagagctt caacattaaa tttcgagtgt tccgatata 399

<210> 29263

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29263

ntgagcaa at tcgaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atctagacgc tcgaactgga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactctgatg tctgattcag tcccgtataa tatcgaaacg ctcgatattg aatggtgaag 180

ctctgagcaa cttcaaacta cagtaacttt ttactcggat gtctgattca gtcccgaat 240

atatcgaaac gctcgatatt gaatggtgaa gctctgagca aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaact ggaataaccga 360

agctctgagc aaattcaaac gacaataact ctttactctg atgtctgatt cagctccgta 420

atatatcgaa acgctcgata 440

<210> 29264

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29264

cgttgcacgc ttgtgactct tgtcaatctc tttaaaacta gtcacttaaa aagctgtgac 60

ttttgaaaaa atcttcagaa acaagtcact tgtagaatta tgacttttgg aaatgtattt 120

ttcaaaatca gtcactggta atcgattaca catcaacaga tgtgactctt cattttgaat 180
 tttgaaaatt aaaacgttga gaagctctgg taatcgatta cacaagttta aaatacttta 240
 aaactgttta aacataagtt ataactcttg aaatttgaaa tcttaacggt ntagaacact 300
 ggtaatcgat tactaccttc tggtaatcga ttaccagaga gtaaaactct ttggtaatga 360

<210> 29265
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29265

tcagacgata cgcaaccttg cccatcctct ccataccgc gaatgttoca tagtacctct 60
 ttgccaactt tgagtatgat gtctcaaaag ctgaggtttg acgatgaggt cgaagtttga 120
 ccaacaccca gtccccgatg ttaaactctt gaggtcgtct ttgtgcgtct gctgtctact 180
 tcattctctg ctgtgccctg agcagtttcc gactgagcag cttcaaaacc tcgtcgcgtt 240
 gggttgagcac ctcatccacc gtgttgatag acgatgtccc ccccaaatat tccggaatag 300
 caggtgggtt ccgaccgtag atgatcttga acgngtgat ccttgtgcct gagtggcatg 360
 aagagttgta tgaccactca acccataaca ggaattgccc ccacg . 405

<210> 29266
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29266

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 gtgtgggttt tcggaaccta ttcttggttc agtataattc atggaaagaa aattaaata 120
 acattgggct tcaaaggcca aaggggttga ttaagcttcg agcttcgcac aattggggag 180
 aaacaatgta ttgctggaac atgtcatata tatattggat caatgtcaca tacagagaaa 240
 gtcacttggg cactttgtta agacgagatc tgcccttggt attaacattt tcgatcagca 300
 gatctttcca tctctttaan atcgagaaat acctgtataa cacttttata tttaatntg 360
 atattaagct gaccactatt ctctttaact aaactatcta ggtatggata tgttactcca 420

gatgatgtac cttctatttt n

441

<210> 29267
<211> 435
<212> DNA
<213> Glycine max

<400> 29267

tctcctatta acatagtaac aacaaattac gccttgcccta aacttgattt ctagaccaag 60
ttaattgaaa tatacatgtg tgcattgttg ttaaatccct attcatcact ttgtcaattg 120
attaagctat tacaatccaa tgccttcaaa ataaagactt agtacatgtt atagggaaga 180
tggagtccct tctttctttc tttctttctt tttttcttct taaaggctgg agttacttct 240
tactgtgaaa cataaatcaa tataccagag acacgtttga gaataccttt atctaactt 300
gctttttatt gcgttataat tctcttaggt tgtaacatat tctatatgtc atttacttgt 360
caaacaacaa accacctatg catgtataag caaaaccaa taatgctaata aacttggcct 420
taaatacatct ttcata 435

<210> 29268
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29268

agctttgaca tcaacaatat gggtgaaact ggtccaacat gggcatcatc gttcttcgat 60
tcagttgctc agaggatgat gcagtaacgcc tcaccgacga attgctattn tgcataagatt 120
caaaggcatc tacatactcc cagtaaaatg gatcgcgctn tgttgacctt gggttcctgc 180
tcatagctnt ctttggtgcc cccttcgtgt taacctttgc tggaggagga cacatcgaat 240
tctgatcagg gtatgcaatt tcccaaagtt tagtcttcaa agtaaaactta ccacaaacat 300
caagttcttc gaatctttta aatattgttt ccattacttc cttgatgctc acctcgggct 360
cagataaccc ttggtctgaa naacttagtc tctccagaa 400

<210> 29269
<211> 457
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29269

ntcacccat aattccncca nnattgggca aatttgcttt gaattttttt ttcctttgat 60
gaatgatgct ctctacaac ctaagacaag gtagaaggag ataaactgta caggctcaag 120
gttcaatcaa ataatcatatc tttcagctca aaatggatgc aagggataaa tcaatcatgc 180
acaaggtaag cgttttagct aagtggctat cttcaatcaa aacatgggtct tcatcctctt 240
cagactcaag tattcagtc atactcagag attcatgcaa aaaccattac ttactactag 300
tcgttctctc acaattaaag atcacactct cactgggttg cggctaatagc attccttcac 360
aatcaacctg acaaaccaac taacattntc aatcataatc ctaattccat gttctttctc 420
ttctaataac tgcattgctca ttcaaggcat atgatct 457

<210> 29270

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29270

agctttttat ntgttaaacc aaggctcatag gctaattgtt cacacctttt ctccatgctt 60
cttgataagt cctatgtaaa gcgcttccag gcaaaaccat tagtaagaaa aggcaaaact 120
attagtaaga aaagtctaac agacctaaag tctacttctt aaaagtctgt tgtcattaag 180
acatttctct cttaaagggt tttgcttcaa caatgttact acttgaaaag aaacaatcta 240
aaatttaaaa aaaaacaata tatatatata tatatatata ataaactaca tgttttcata 300
tttatcatca aatataataa attgaaaaat gtatgcta atgcatctct tgaaatacaa 360
tctttataat atatttgta atagatataa acatgtgc 398

<210> 29271

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29271

tgctacaagt ttagtagaaa catgctttct aaccaaaga aaaatattga atgtgaagga 60

gttaatcagc acttttagtt gtaccagttc cctaagtata ctctggttct agccagcaat 120
atattttggt gctaaccagc atgtcctttg gcttctaact gcctgactta attagctcca 180
ttcttttacg tatcaaaaga acctagctct gacacctagt tagtgctgga taatagacca 240
taaagtctac catgacatag ccttacgaca aatgtatact attccaattt ccaagttcta 300
agacatatta aactctntta acagttagta tagatagccc tgattgtcat gttttccttt 360
atatattgac ttttatttct tatctaactt ctattgcgag t 401

<210> 29272
<211> 410
<212> DNA
<213> Glycine max

<400> 29272

gcatgtgcac gctttcaagc tattatcgaa gttcaacatt aaatttagaa gtgtttacat 60
tattatttaa ccaagtttaa attgagtttc tattagtttt aacacatata ctgacttaat 120
tagtctttta tttatttatg tatttatttt gctaactaga ccttctccta taatgatttc 180
gttttctgaa atactaataa taatacatte tttaatatc cgtatttttt ttaccactc 240
tcttggtaaa agaaaatttg ttcgggcttc attaaatatg agaattctcat tattctatat 300
gtatctgtgg agtcttattt ctaaaacggg ggaattaatt cacataaatt tcaagagagt 360
tggtacatta aatgtaaggg acgttggtgt gtgatttggc tcgatattta 410

<210> 29273
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29273

tgcttgtgga gcttctatgg aggctggatc tttgagctta ttgttgcct ttaatggtgg 60
ttttccacca tggagatgca gcggaagaca aaggagaaga ggggagagga ggcgtcatcc 120
actatggaat aaaccatgga agaaggagct tcaccaccaa gatgagcctt ggataagaag 180
cttggaagga tgcttcaatg gaggaaaaga aagagggaga gaaagagaga ggggggagca 240
cgaaattgaa tgaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc 300

ccattcatca nagttacaac aagtgttaca catgcttcta tntatcagat angtagcttc 360
 cttgagaagc tttcttgaga aaa 383

<210> 29274
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29274

tcaagctttt agccccaatt ntctataaat agggggagaa gtgaagtgaa aaagggttca 60
 gcccttatg cacttctctc tctttcgaat ttgcttgga aaattgtttc cgtgaagaaa 120
 atctaagccg aggcgcttcc gaaacgtttc cgtaacgttt ccgtaaggaa tttcgcaag 180
 gtttcgatca ttcttcgact ntcttcatcg ttcttcggtc ttcaacgggt aagtacctcg 240
 aaccaagctt ttcgattcat tctatgtacc cgtggtggtc cacattgtgt ttcgtgtatt 300
 tttattctcg tttcatttac tttntataacc ccctttntga cgtgcttaag ccatnntatt 360
 taagtcattt ct 372

<210> 29275
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 29275

gaactataaa aaactaagct tgccgccagc tcgccacgc gagattgttg cttccttctt 60
 ttctcaacct tttggaggaa ggtctacaa tgcccaagt ggccaaaatt gctatctgca 120
 ctcccccttt tactaaatgc accccttcta tctttgtggt aattcttttt ccgtaccgta 180
 cgaaacttta tgaattttca acgatactta ttcaccttc tcaacgttac caatcttttc 240
 ggattatgca tttactcttt tttagctttc gaagacgtta cggaactca ccgattgcgc 300
 aaaaacatct tttattgact tccgccacat tacggaattt cacggatcgc acaagcctgc 360
 ttctctttga tttccgagat gtctcgtgac ttcatttatt 400

<210> 29276
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 29276

agctttatgt gtcttaagtc atggtttcct ttcttttttt tttcttgttt gtgacaattt 60
tgtacgttat tcagacattc cctgggtccaa caaccttttt gtatatatttg ctttttcttt 120
cttccgatct ttgatcggga aattttcttt ttctttcgct ttctccaat ttttgatcgg 180
ggattctcgc tttttctttg ctttctcca atctttgatg gggaattttc tcttttcttt 240
tgctttttga agcacattca caacttaaca gtaaatgaaa ctcttttttt tgggagatcc 300
ttctgttctt tcttcttagg gcaagggtaa aaattcctat catgggtcaa ggtttat 357

<210> 29277

<211> 403

<212> DNA

<213> Glycine max

<400> 29277

agcttggtta aaattttcta actattatag gataaagtgt aaactaacc cagcttgaga 60
gatgtgtcag aattaccaca gtctggagga aattcagatg aactgcaggt aaatgactcg 120
tatgggtgcc tttgttctcg tacgaagctc tgtacataaa aatttctatt acattattta 180
caccagttat tgctaagtca taaagtatct ctatcaggaa gctcgtggac cagaaataaa 240
tgggcaagat ttgaaaggc gtaaccacct gcttcaattt ctggttctct tccataagtt 300
tggcttctct cagagcaac attgccaaac atcattgcag aaaaagggtg tgtgaatata 360
gatagatgaa aaattgctta tacgctgtat tattataaac aac 403

<210> 29278

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29278

cactcaagct nggaaagaac atctactgca agcacgggtg ttgtgactnt gtgttttagta 60
aaaaggataa atttggaaga aaaaatattt agaaaagtta aaactaatta acagttaaata 120
gacagatgtc acaatttaata tgggtgggtc actttcttgg ctaagccctt gtctgttata 180
gcatttttca aactaataaa ttgataaaaa aacatccttc tacaaaacta attttattaa 240

attgatgaaa gaaaataata ttattaatat tagattcaaa actaaattaa tatataatgt 300
 ttgggtaatt gagtcaaagt ggatgactta cttccctggt taaccatttg agttatTTTT 360
 gttatactaa actttntaac atgtgatggt acagaaaaac aaaaatcaaa tcatacctcc 420
 agtcattgcc atgaaatagt tgtcttggtt tggtccttct aagctctctc tctttc 476

<210> 29279
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29279

agctttctta ttcatttttc aagttacaag tgaactcccc aagaagtgac atggcccact 60
 tgtgggtttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
 caaggaggta cctttggggg accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240
 gcacacactt agcatgatgt caagttggct tgtagtcaaa tataggagat aaccaatcat 300
 acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
 tgttgccatt ggtattgttt cttccttaca ctnttcata ttg 403

<210> 29280
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29280

agcttctccg acagcccttg gaccatttg ctttttatgt angtggttct tttcttagct 60
 ttggttttgt tatgcactac attagggtag gttagtgtaa cgttagggtta gtggaacctt 120
 atggtagaag acggaacctt atggtagaag acgaaaccta gggtagaaga cgagaggatg 180
 ccggaaaaaa tggcgcaaaa ggctgacgac ggagtcttcc ggaagaccg ttaggggttc 240
 ttccggaagt aaccaaactt cttccggaag aacacttctt tcggaagact ctccgataac 300
 ctcttccggg aactttcc 318

<210> 29281

<211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29281

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agcttttcat catatgttnt aatctacaac atggcctttt cccagtcaag ggtagttggt 60
gctcgagcta ccatccgcat caactctttc atgtgtgctc cggatactt cttcttccag 120
ttaccataca aatgtttgat acacagacga tgttctacgt tttcaccaag ctctttgatt 180
acctcaacca aaccctgaaa aaaaacagtg cacaaattaa atgaaaaaaaa tagtgcacaa 240
attaaatgaa agccacagtt tttatttacc ttctgtaggt caaaaatgaa agccaacat 300
ccctcctaaa taccatctag gtcagctatc tacaaatcaa caaaccactt ccaagatgaa 360
taattntcag attccactac aacataggca aaaggaaaca tttgattg 408
```

<210> 29282
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29282

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atatgcatgt gaatttngaa gcattttcaa gaatcaagcc aaggctattg tgcaagccat 60
caatggggca aaacacacca aatgattatg atgatggatg gctcaaattc tcacaaaggt 120
aaactcatca ctttccaaat gaacttttaa aactatcatg acatgtagaa gagaatcaag 180
ggattcaagt cacaaaatgt caagactctt attttcaaaa caattaccca tttcttgaac 240
atatactata attcaaagaa aaaaacatgc aaagtgttac atgcgcacaa aactgaccca 300
aaatattaaa ctagaaatcc gacganacta acaacattaa caaattaaca caactaacia 360
attaacanga gactaacaaa actagcanaa ccaaagaaca ctctccncc cccccgcat 420
acttaaacia caca 434
```

<210> 29283
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 29283

agctttgtct gattaacata aaaattggat ttagaagttc taatcaaagt tggctaaaaa 60
agttattcgg tgctgtgctt aaatattatt gttcatgcat cttgggggtg cgacttacag 120
agggtttgga gagaaatatg ctgcattgaa atacggaaga gagaaatatg gtgattaaaa 180
atatatgaga aatagaatga atttatatgt acttgggttg agagaaagag tgggtggatg 240
catgtatgct attttttatg taggtgggaa tttttccaaa aatcttaatc acgtatatat 300
ttgttattat taagataagg ctttattgat attattagga taaaatattg acattatcaa 360
taaaggataa cttacatgtc ataatatatt t 391

<210> 29284
<211> 438
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29284

cgcctttaac gataaaaata acacaaattg atcttaaaat tataatttat ctttaaataa 60
aacgattttc aattctatca aattagtcca atagaaatat attaataatt aagtctaata 120
aaaaattatt gacattttca tccaataata ataatttatt aacatttttt gtccaataga 180
acttactcat atctaagtca aaacaatgag tgacatttcc ctcgaataag aaatatattg 240
acatttccgt ttaacaaaaa ttattgatat ttacgtccaa aaatgatatc ttattgatan 300
ttttgtccaa ttttaattagc atgatcacat tgacaatcat ttgaatgata aatctatcct 360
tttgtgtcat gtagaactat ttattaatca caacgaacaa tagttaacga ccgactanta 420
ttatcacact tcttatat 438

<210> 29285
<211> 285
<212> DNA
<213> Glycine max
<400> 29285

agctcagtac cccggtgagt actctagaga tcctcctgca tgcattgcgcg cgttttctag 60
cttttattca acattctcac gagcagagtc tgctgacccc aacttgagag atgcgtgtga 120
atatccacag tgtgcacaga aagccagagg aaccgccttg ctatgtcttg ttccgagcct 180
ttattctoga actaaccttc gtacaaacta acctgcattt ctttatctac gacacatgct 240

gcttcgttac ttacatcta tcttaggtgg cgagtggacc actat

285

<210> 29286
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29286

ccccgcgcac gagctatgtg annccattgt annaccncca cacctagaaa actcacgctt 60
gtaatcgccc gttccgagga gggtgcgcgt tttgccccgt ttgcagacag cggaggcgcc 120
agagagcgat attcatgatg gccgctctc cattaaggga taagattcat gtaacctatc 180
tacctacgac attattggta tccacaacat agaaagtttt aaccattgat tagacatttt 240
attctaaagc aactaaactt tttctacaat tcaaaattta tctacaatct ccataatctc 300
ctcatcccaa cacacttgcg attgtattct taatctaaac tattattatt cgatcacaca 360
gtcaaaactgt gatgttgaat tacattactg actactcata tcgagagtac atatcaacta 420
aattctttac ctagcgtgag atgcatatgt gcatgcttta aatgttacct atcgtcattg 480
tccggattaa atagtcaatc atatgctcac aaatctttat aatagaacg 529

<210> 29287
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29287

ctgcaagctt gtgtctagtt tttctaaagc anagggttgt tcattctgtg tgtatcaaga 60
gtactatcca ttccatatat aatcacttct tgattagggg tttctttcta aatgaagggt 120
acacggcaaa ggaaaagtat tgaattataa ctcccgaaga aataataata caatacttct 180
gacctttaat tttacacat tcataattat tacattttta gaacagttat ttcataagtc 240
aataatcatt tatccttttg gtatatctag attaaaaaga agaggatta tatagatttt 300
acacaatcat taatcactat atgataattt caaagacttt taaagtattt atcttataat 360
aagttaaagg atgacttggt actagatgat aatat 395

<210> 29288
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29288

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtttg acangtctat 60
 attcttctc cattattatc ttgtgcatat agtaggcagg ctgattcctt ttagatctaa 120
 tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180
 tctgttgtaa gcttactatt gatcaccaca ggcttgggtct tgttctcttc caagaacata 240
 cttcaggtgg ttaggtaaga tctttagctc caccttgggc ttctcaggtg gacttccgct 300
 tttcaattct tcaaaactgg tccccctgc aggcatatct tcttcacaat ctaagccttc 360
 caagcaagcc cataaattct tcttctcttc actgggtaga caatctacaa cattgggtcaa 420
 agctttctcc agtaaagttt atg 443

<210> 29289
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29289

tttcaagctt tcttcggggc atttcctgcg aaggcaaaca tttggaaagt tagttttacc 60
 agtgggacac tactaaaaaa aaatggcata caacctctc ccataaatac aaacatcaat 120
 gtaaatttag agcaagctta tgogcatatt tccttacgaa cgttcacttg cacaagacat 180
 tctattaact aagaaaaatg caccatata caatcaaggc agcttcgtta cctagattat 240
 ttacatgtac ttccaaggtg tatttggttac ttacatcaca cacatttcct tggctaaatt 300
 tacatacatg catactcaaa gcattntggg gtacaaaaaa ttgcacatgt gcacatcttg 360
 gtatttctaa tacctgtaca tgcacaaact tcatgatgaa tcttg 405

<210> 29290
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29290

tatacggcct angatgtggt tttgtgacta aattcaattt agacacaagt cttgcacttg 60
ccacattgct acaactccct ccatcattga tcatcatgca aactttgcca ttgatcaaac 120
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatggccaa 180
gtaatcatca acaattctcc ctctgggtgtt ttctccactt cctcctcctc atcctcactc 240
tcttctccct tttcaacttt ggactcacta atgtactctc cgtctctaag aatcatggat 300
ttcttgatag ggcaactcata tgcataatgt cccaagccgt ggcaccgaaa gcacttgaca 360
tcccgaacant ttttntagga ttgttcttgg acatttggag gagttnttga tggatatangt 420
gttgcattag aggtggcaac ccc 443

<210> 29291

<211> 402

<212> DNA

<213> Glycine max

<400> 29291

agcttttatat gcattgcata ggattcggaa tctagtgttga taaagaataa gagaaccccc 60
tatagccttg ttccattccc agaccagcac ttgaattttc tctaatagct caaaagatag 120
ttataaaggc aatacaaaatt ctaataaaact aaggggacaaa ttttttttat aaatcctttc 180
aaaaagaagt taaccaatta agatctcact taataagaaa aagtagggaa gccaatgtgtg 240
aagcaaagca acaataaaaag acaacaacat gagaagacaa gaagcaaaat tcagtcctat 300
caagcatacc gctgcatgaa ctttgcctcaa aatcaatata atggcacaaa gggatgcaac 360
aacatgagaa gataagaagc aaaattcagt cctatcaagc at 402

<210> 29292

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29292

tgctaagccc aattccacan attntcaaaa cagataagga tttgctctta gcgaggcaag 60
gcacgcttag cgcaactact ctattgaaca aacttggtt agcgagcagg ctcgctaagc 120
ccaattccca aaatttgaaa aatagagaga taattgcgct tagtgtgata gggcatgctt 180

agcgcacaac aaaacacaaa aattttctaag tgtctgagaa cacattactc gcttagcgca 240
cagacgcact tagcgagttc ataagcaatt gaactttcaa ccagagaaca tgaacgtgct 300
tagagggaca gagccacact tagcgagttc atctagaagt ctagatgttc aacagaaacg 360
atgaactcgc ttagcgcagc atggtgctta gcgtgctcat cgcgatttcc agaaaaagca 420
ggggcttctc acccctccac t 441

<210> 29293
<211> 350
<212> DNA
<213> Glycine max

<400> 29293

agctgtgata cgcaccttca cacgtctgga acacgggtggc aagagtcagt acaacacaaa 60
taaaactata ctcggggtga ttgattgggt caattcaaca tcctcaaagt gtgctaactt 120
ttaacacctt ccaaaatgaa attttttatt actttcttaa gatcaagatc atatatat 180
attaacgtca cttattttct ttttttattt tatcaaacad aattaattat cgaaaataat 240
tcaagtttca catcagctaa aaataatctc acattaaaat atataagcga aagataactc 300
tcatccatta ttttaacatta tcttaaagta ctctatgtac aatggatcca 350

<210> 29294
<211> 322
<212> DNA
<213> Glycine max

<400> 29294

catctaacca cttaattctg gtcaataaaa tcaagtaaatt atttctcatat tgccatacaa 60
atgtttatgc cttttttata attaaataaa aatcacattt accacctaaa ttctctattg 120
atctcatgca taatccggtg aaaaaccaat ctttatacta atatgtgaat gccatatggt 180
acaattcatc tattatatat acaacatata ctaccgtacg atttttttat gaatgtcaaa 240
cttcaaaaca ctacataaaa cactaagtct tataatgttc tctgacgaca tgaataatct 300
acataatatt attaactact tc 322

<210> 29295
<211> 368

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29295

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agcttttggc aagtgtagca acatagtata cggaaangat gctctagctg tggatagagc 60
acggcacact gctggagaaa tcgctataag agatcaoggg ccaatttttaa ttgaggtgca 120
atcagctccc ttcatgcgta agacgatcat tgcctgatgc cacatcattt taatgttcac 180
cgagctgatg ctaatggcta tataaccttc aggtctctac tcatgcagtc ggacatcact 240
ctacatctga tgagtaaact aagtaccggg gaactgatga gatcgaatat tggaatatgg 300
caaggaatcc agtgaatacg gccaaaagac gggtagaaag gaatggttcg gggagtgaca 360
aggatgaa 368
```

<210> 29296
<211> 401
<212> DNA
<213> Glycine max

<400> 29296

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agctttcata atggttgcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60
cagatttata aacaaagtgt accataattc tatttaattg atatccacgt agggagtgat 120
tgtagcctat aggggtgtcta tacaggggat gtctatacag gatatgaagc ataaggtgga 180
ccttgcggtg attcaagaca caaacaagga gtcttttgat aagctcatct gccaatctat 240
gtggggagat tcctatgttt cttggaattt tgtaccttca atacaggcat caagtggatt 300
gttgcgcttg cggaataact catattttca ggtggagagg agggataagg gtagaaatat 360
tctaattgctg gaatggaagt gggtaaaaga gaatcagtg a 401
```

<210> 29297
<211> 393
<212> DNA
<213> Glycine max

<400> 29297

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cctcattgca gtcatttcac acaacataac ccacatgaca taagattaag acatgggtgtg 60
aaggaaactta ccgtacgttt gagcaatcct ataatttctt gatcttgcca aagccttatg 120
```

tcaacaatat tagcaagcaa atcaacctcc atcaaaatgt gggattgttc attgggatgc 180
 tgacttggct tcctcttaat ttcttcttcc tttagcattg agaggataat aatcttagac 240
 attacacaat aataatatat agatcaatta aaataagcat catatctatt tcacacttct 300
 taatattaca cctataaagt cacatcaacg tcttcattac cttgtctcga cttttcattg 360
 aacctttcct ctaatatata caccgacacc tct 393

<210> 29298
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 29298

agcttctttg agaattcttc cttgagaagc tagagcttag ctacacacac ccctctcata 60
 actaagctca cctcctggag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120
 ctacacatac ctctctaata gctaagctca cctccttatg atgagaagct agagcttagc 180
 tacacacccc ctataataac taagctcacc cctatggcaa aatacatgaa aatagaaaaa 240
 aaaaatccct actacaaaga ctactcaaaa tacctcgaaa tacaaggcta aaaccctata 300
 ctactagaat ggccaaaata caaggcccaa acgaaggaaa aacctattct aatatttaca 360
 aagataagca ggctcact tagtccatgg gctcaaaatc taccct 406

<210> 29299
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29299

tatggcctca tcaaaatact tgtttccoga gggaaattct ataaatagat ctctcatctn 60
 taatggagtg ggttaccact actggaaaac cgcgatgcaa atctttatag aggcaataga 120
 tttaaattatt tgggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag 180
 tgcaacaata gaaaaaccta gagnaacaatg gactgaggaa gaaagaagat tagtacaata 240
 taatttaaag gccaaaaata ttattacatc tgccttaggt atagatgaat actttatggg 300
 ttcaaattgt aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac 360
 aacagatgtt aaaagatcta ggataaacac tntaacgcgt gagtatgaac tntntangat 420

gaatgtaaat gaaagtatac aagacatgca a

451

<210> 29300
<211> 404
<212> DNA
<213> Glycine max

<400> 29300

agctttttaa tgatttgatt ttcaaaaatt aaaatgaaga gtcgtatctg ttgatgtgta 60
atcgactaca ccttactggg aatcgattac cagcgactga tttcgaataa tacattttcca 120
aaagtcacaa ttcttcaaga gacttgtatc tgaagatttt atcaatagtc acaacttttt 180
aagtgactag tttttaaaga cattaccaag agtcacaagc tttgacttga gtcacaaaga 240
gattataaat atgtgaccat ggcgatgagtt taataattat ccttcagcat ctttatcatc 300
catcattcat cgatcatctt tgaatcatct atctattcat atgtttttac acaattgtat 360
gattcatatc tcttcatctt tctaaaagtt tttgatcagc actt 404

<210> 29301
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29301

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anagattttg actatgtaag aggttagtca taacacttat tattaaatgt tctgatatga 120
tgatgagaac ctaatatcaa tgtgcatctg ctcagtgtca gaagatcatt acatagataa 180
tgtatctgtc acttggttat agaaaacaca ctatgtaatg atgagtcac actcagaacg 240
ttgctggggt gactacagtg ctcataatgc tatactcagc acgagatggg gacgctcaga 300
atgttctagt gcaaatgcat tatatatgac aacgcataac ataatgttga gaggaacaga 360
aaagatgatt taacacatgg atattatacc cgttcacctc aatcttgccg tgcgttcaaa 420
cctcacccaa actgatgaaa tgttcactaa ca 452

<210> 29302
<211> 323
<212> DNA

<213> Glycine max

<400> 29302

gcgcgtttgc tactcttggc aactgtctaa ggaagctact catggaggtg agcttagtta 60
tgatacgtgt atgtgtagct aagactctag cttgtcacgg aagtgatctt attgaatctt 120
ctgcaggaag tttcctcaag atagcttcta acggaagcta cctagtctat ctctagatgc 180
aggtgtttcg cttagtgcac cactgatgta tgacagtcct gtgagacaca cctgaaggca 240
tcacatgtct ctctctttct tccttaactt actggctcgg gcctctgtct tacgatccat 300
ccatccttat ctccattgaa gca 323

<210> 29303

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29303

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atatgttcta ccacaaaggc tgacatacct aaggtgtccc atatgactac ctaagtatgt 120
attgaaacta aaaataagaa caaacctacc taatgggtcc ctatgtgcac tcaccatgaa 180
gatgttaggt gtacaagtga ctttacaaaa gagagttgca ccaactcataa cattcatcat 240
accacctatt ttagggactt ggtacctaata aatatctatt ttgggcacca acaaagcaca 300
tggatttaag ctcttgcgaa ccataccctc atactacaac ttctttactt gaggaatata 360
ctc 363

<210> 29304

<211> 319

<212> DNA

<213> Glycine max

<400> 29304

agctatacct gacatttat aagcggatac gcagaaatct aaacagcacg atacgcgcat 60
gttatgagca atgtccactt gacacactct gcaaagcact ggaggatcgg ttttgcacct 120
aacatacgca aaatcctgac agctagctag ctaagagcta atagacgatg atttttgttc 180
ttcacacata cataacataa tagctaatac tcaaccatac agtcattatt caccatgtaa 240

atttaacgcg ggaatccgaa ttcctatatc aaaaaagtct tagatgcgtt gaacccgaat 300
tctgaacact atctattta 319

<210> 29305
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29305

agctttggtc tagtttttct aaagcaaagg tttgttcatt ttgtgtgtat caagattact 60
atccattcaa tatataatca cttcttgatt agggggtttct ttctaaatga aggttacacg 120
gtaaaggaaa agtattgaat tataactccc gaaaaaataa taatacaata cttctgacct 180
ttaattttaa cacattcata attattagat ttttagaaca gttatttcaa aagtcaataa 240
tcatttatcc ttttgggtata tttagattaa aaagaaaagg tattataaag attntacaca 300
atcattaatc actatatgat aatttcaaag acttttataa tatttatctt anaataagtt 360
aaaggatgat ttgtgattag atgataatat aatcag 396

<210> 29306
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29306

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtctg acaggtctat 60
attcttcctc cattattatc ttgtgcatat agtangcagg ctgattcctt ttagatctaa 120
tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180
tctgttgtaa gcttactatt gatcaccaca ggcttgggtct tgttctcttc caagaacata 240
cttcaggtgg ttaggtaaga tcttttagctc caccttgggtc ttctcaggtg gacttccgct 300
nttcaattct tcaaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360
caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420
agcttt 426

<210> 29307
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29307

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agcttattat aagaaagtga agtaaaaaaac ttttaatat ggagatttgg tttggaaggt 60
tatcctgccc atggatagta aggatcgagc cttangcaaa tggcccccaa attgggaagg 120
accgttcaaa ataattcaga tctattcgaa tggtgcttat gagttagagg agctaacccc 180
tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240
cgaagttaaa ataagcatag aatgagagaa atactggaaa catagaaatg gcgataacag 300
taaattgcca caaaagggcc tgtgtcagta ttacatcaaa agtagaatcg aaatacagaa 360
ttcgaaataa agatattata agttctacta atgcatga 398
```

<210> 29308
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 29308

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gtttaagtga aaggatatga ctcttcacat ttgtttttga atttctttat tcaacggcac 60
tagtaattga ttacccaaac attgtaatcg actatagctt tttgaaaata attggaacgt 120
tgtaaatcca gtttgaaaac tttttcaaac tcattttgct actggtaatc gattacaaca 180
atatggtaat cgattaccag agagtaaaaa ctctttggta aaagggtatg tcaaaaattc 240
atgtgctatg caaagtgtta gtgcttggct ctactgagtt ttaaaagaat ggctaaaatt 300
ctgttaaaac ataagcactt agacaatgaa tgaaagctgg agttgctgca catgatgtct 360
aacattatgt caaggaatca gatcgggctg cacaatgcac aatgcacgat ataatgtcat 420
atgaagaatt gaagctgcaa gatccacgat gtc 453
```

<210> 29309
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29309

agcttttctca tttattagca tctatgaata tattaggagg aattgaaaga taaaacaggc 60
gattagaagt tctccacccc tacaaaaaca attttcatat tcaaaagtat ggtaaagtc 120
tgattgtaaa aatgctcaga ttagcttcaa ctaggcagac aaaanaaaaa tagaaaatac 180
aaaaataagg tacttttact gtccatataat agacttggtg caaattaaaa tagcttgcaa 240
aaaaaaaaaa acataaaaaa gtgcagaggg ggagaagaaa agatagaata caagtgtgtc 300
taaggaaaca caataaccaa acattttaaac ttattcattc caatcgcaac atgaacaaaa 360
tgtttnttct taataatgtc atctagcatt ggtatattca aag 403

<210> 29310
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29310

tataaaactc agctttaatt ngttgtttgt cttgatagta tttaaattac tttttactag 60
atgagttcaa taatcaaatg tgataaaatt gctgagcata actataaatg ttattcaatc 120
tatcatgtta tcaacttttag taaataatta ttctttattt tattatcata tttattattt 180
tattaaatcg ttaattcgac aagtctttga ttaaattata ggcttggtat catgaagaga 240
ttatgataat gagaaaaagt tattttataat ttcattctaa attgttcttg attgtaagat 300
tattgtgaat atgatatcaa taatccggat aagttaatat atatctaag gtctttattg 360
gataaagatc aatagatcta atttattaaa ttgcatataa cgattatgta tatgtggatg 420
ttataattaa agcgacttaa ttgagaattc ctaat 455

<210> 29311
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29311

agcttttctac aagtttcttc acaataaacc atcatgaagc agaaaactaa caaaactacc 60
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120
cctgaaattt cgaagtccca ctcgtagcca cgcacttcac gaccccgaaa atgccctcct 180

ttcgcgattt ggggcagaaa tgagcaccaa aggttggagc tttgttgggg tttcaatgga 240
 gaatgaggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaaagt 300
 gtgggggctg agtgaagaga gagaaaagct ttttggtttt taaataaaaag gggtttctct 360
 ttttctatta ttntatttga gcaatgccac atgtctccat 400

<210> 29312
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 29312

tactcaagct tgttactcat gtgacaccct ctaccctca catgtatact aatattggat 60
 ttttaattcac atattaatta caagtatttt taaaacattt ttttttccga aacaagtctt 120
 tcaaagggga aaaagggtca cattcatttt cttctacatc atattcaaac tcgtccaaat 180
 aaataataaa gtaatctcgt ctcaaacaag gtcgtctaaa cttcatacaa ttaatataga 240
 acttatatcc tagtgtcaca tcctatcata gcgttggtgtt cctgtgtcct ctaccatgag 300
 gttcttcata gtcatccacc tattcatctg tttccccgaa cacaagttca agatcatcac 360
 aggatccaaa cacaacaaca cacagggagc gagtcatcac attcatacct aatagagaga 420
 c 421

<210> 29313
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 29313

tcaagctatt cttgatacta gaagcttctt gaattctgct catgacacta gaaatatatc 60
 ttgatcatga actcgtgac tgaatcttga aatcattctt tgtggatggt gtcgtcatct 120
 taatcatcat cgaaacttca cgaatcaact tgattcatca tcatgaagct tgcttctaca 180
 ctttaaccccc aagaccaaact accaactagc ctgagagggt atgaaagaag agccaccagt 240
 ccctctaaga gagcccccat atccttttagt tccgtcaaag aagaataagg agcactactt 300
 caagtgtata ttgaagatat ccaaagtgtt ggagataacc atgccatttg aggaagcgt 360
 acagcagatg ctgctctaca ccatattcat 390

<210> 29314
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 29314

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agacaaggat gacaaagctt aagataatca agaacactca gtgaatcaga taattcagaa 60
gtcagataga atcagagaat tccgactcag aaaaagtctt agtcagaatc agatcagggt 120
aggactcaga tcagagagac tcatcagaaa gtttaaaagt tttcaaactt tgatgcacat 180
gattttgaca aacttttaca agagtttctt cttagtatcg ataccaattg tgtatcatac 240
agagcaaatg tttgaaagtt tcaatgatta cacgtcatta ttcaaagtga tcgatcatgt 300
ttgta 305
```

<210> 29315
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29315

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ggcggcgctt gggcgtgtga atcgatcact ggcanacgga ancaaaaact cagcttagtc 60
tgaagatgaa cgatcctatc actgattgat tatggataca tgttgctaga gctttagaag 120
agataacgtg gctcgcactt agtcactat atgaggacaa tgatcactat acattattcg 180
atcatgatcc aattcccttg agcaaaagtt ggttgccaag catactccta attattttac 240
tactcccgga ggaagttgag atcatcgacc ctgcttataa tgtatctaaa ttctcatcga 300
ctgcacagtg gtatggactt catctgccgc gagtgggaaa tccttgggtct ttgaggctat 360
gacacgtcaa caatgatttg acagctctat tcacacagac cgatactgga ccactacaag 420
tgtcggcc 428
```

<210> 29316
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29316

agcttctaca tcagtatcct tctattgtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcatcactc 300
atgagttctc tacagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360
ctttgcaaga agctgctang gtcatgcttc at 392

<210> 29317
<211> 460
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29317

agaggatgct tcaatggagg aaaagaaaga gggagagaaa gatagatggn ggattacgtt 60
attgcaggaa gaaaaaggga gagaacttga actctgagtt gtgtctcaca agactctcat 120
tcatcaaagt tacaacaagt gttacacatg cttctattta tagactacgt agcttacttg 180
agaagctctc ttgagaaaaa ttccttgaga agcttctttg agaatatctc cttgagaaga 240
tagagcttag ctacacacac ccatctaaca actaagctca cctccttgag aagcttcctt 300
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 360
ggaagctaga gcttagctac acaccctat aatatctaag ctcaccccca tgacaaaata 420
catgataata caaacaaggt ccctactaca aagactactc 460

<210> 29318
<211> 364
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29318

agctttgtca ctggtattca tgtttcattt aggcctttta agtatatgca ttttgattta 60
tggggaccat ctagagtga aactcatggt ggaagctcat actttctcac catcatagat 120
gattttctcaa gaagagtatg gccgtatgtc ttgaaaatac aatcagaatc tttttccaaa 180

ttcagagagt ggcatactct tattgaaaat caacttggtgta caaaattaaa agttntaagg 240
attgacaatg gcctggagtt ngtttcagag caattcaatg agttntgcag gaaagtatgt 300
atcataaggc acaaaacagt cccctcacaca ccacagcaga atggattagc ataaagaatg 360
aata 364

<210> 29319
<211> 477
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29319

ctcaagtaca ataaagaagc ctanatggac tngaaggtct tgccaaccca cttgaagtgt 60
gtgttcttga aagagaacaa tgcaaaacct gtggtgattt gcaatgattt atcttctaata 120
gaagagtcta ggtgggtcga agtgctcaaa aagcacaagg cagtcattgg gtggcacatt 180
ttggacctca agggaattag cctttcttat tgcattgcata aaattatgat ggaagctgac 240
tataagtcgg tgagacaacc acaagaagg cataatcctt cgatgaaaaa agagggtgcac 300
aaggaagtcc ttaaactcct agaagtaggg cttacctatc ctatcttaga cagtgccttg 360
gtgagttcag tgcaagtggg tccaagaag ggtgggatga cnttggtgag aaatgagaaa 420
aatgacctca ttccaatccg aactgtcatg ggatggagaa tgtgcataga atatcgg 477

<210> 29320
<211> 403
<212> DNA
<213> Glycine max
<400> 29320

agcttgtgca ttcaatatcc tgatgatggg gttccatatg ttctcaagac tggactaata 60
catttgcagc ccaagtttca tgggtcttgca ggtgaagatc cttataagca tcttaaggag 120
ttccatattg tttgtttcac catgaagccc cctgatattc aagaagatca tatctttcta 180
aaggcttttc ctcatctctt ggaaggagtg gcaaaagatt ggctatacta ccttgctccc 240
aggtctatct tcagttggga tgaccttaag aggggtgttct tggagaaatt cttccctgca 300
tataggacca ctgccatcag aaaagacatt tcaggcatca ggcaacttgg tggagaaaga 360

ttgtatgagt attgggaaaag attcaagaaa ttgtgtgcaa gct 403

<210> 29321
<211> 406
<212> DNA
<213> Glycine max

<400> 29321

agctttcccc tattgtttgc ctccggactt cactccccgt gccaccccg aagatttaag 60
ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120
tgaggaagga gatacccatc ttggccccct gctccacctc aaagatccgt ccccccata 180
actaccccaa ccgaacatag tccgctatat cccggcttca cccacacccg taaaagaatc 240
tgttcccttc gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaacat 360
cgtcacccct cccaagttca aagtaccaga ctttgataag tacaaa 406

<210> 29322
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29322

tgtccacaaa aatagggtttt tgaaagttaa tcatttcagt ttcttttcaa gtaaaatgta 60
tcatttntaa ggtctaactc cttaagatga tcacccctca agtaaaaaag aataacttga 120
ttcacgcatg tgaaagaact acgtaggtct gattttcttct ccaaaggagg gtacgtagga 180
gcaaaagccc cgcttttgtc gacctcaaaa aattaaaaga aataaagtta ggtaacacaa 240
tttccacaat tctaaaaaat aggctgttgt cctttgagac aaacgtgaga ggtgctaata 300
ccttctcaa gcgtanatac aactcacgaa ccatagaatt tcattntgac cggttttcctt 360
cggttttccc gacgttttcc acanataaac gttggtggcg actccgcgca tctttcctcc 420
tttgganaca caccgtgag cctcg 445

<210> 29323
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29323

agcttgcttt ntgctattga agaaaataaa tttaaataatg caatgataaa ataatgaaaa 60
caaattcagc aaaatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120
atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180
gtttgtgata tttctacaca cagatataaa ggaacaatta caaatatttg ttatgttcca 240
tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300
ccctcacaat acaatttcaa agaaatggaa taagagaaaa acaaaacata gaacaaaata 360
caacgtctaa atgtaaggaa atggagaaac tacgataaaa a 401

<210> 29324
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29324

ctgctgattt agttttcgcc gatgaaagga tcgaagtggg tctattaaga cgcaaactctg 60
atcatcatgc tttgataaat acaaaaaaac tagggcaaact gaagatggtg agaataaggg 120
agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180
tcattactca gccataaaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240
atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300
cacaaccaa aacaccaacc aagaaatgaa ttttgcagcg aanaagcctg tagaattcac 360
cgcaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
cataacccca gccaaagggtc atcaacctcc atttctctga gaata 465

<210> 29325
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29325

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tattgaaagc tgaatgatgg ggcgcatact ttctcacgcc attacataat gtatcatgca 120
 tgatcatgtc ggatgtagaa aaaagatact gaagtcagat aactacttct aatggaggca 180
 cactctatat tgaatctaaa ctagctcact ataatcaatt acacggattg acataggccg 240
 gtagagaggt gcctagcata acattgatcg atgacagact gtgagaatct gattgctcat 300
 acatttcctg acacacgatt gataatgcat gactctctgc ttgaatcgga caccatgtga 360
 tagagtggag tgcattgctgc cttangcagg an 392

<210> 29326
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29326

tcagctaccg attaatacat tgagtggctt atctaacctt gttctcttag cggaccaaatt 60
 cagcctcaga tgcaagggtt ggggtgtaag tgcttgagac tcgtggctta gcgtatgaac 120
 aaagatgcat ttagtgcgag gcttgcaactt agcgaaagga ctatttttca gaaaaaagtt 180
 ttctaagtta ttttttagtt ctttttccaa gaaattgaaa cccttatggt aaacattcaa 240
 agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg attaaatgca 300
 tgaaaatcaa agataccgga aattaaaact ggggtgcctn ccaggaagca cttctttaac 360
 gtcattagct tgacactttt acctcactgg gtgatcttat gttttgggtc atactttcag 420
 aacctcttga cctccttnca ttacct 446

<210> 29327
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29327

agctttatat gttttctgtn gagcacttag agtttagtat tatgatcaaa tccctattca 60
 tggactacca aagatcatgg agaagcctaa ttgataatgg caagatggga attatggtgg 120
 agattgttat agacggatgg agtgctacta caataagcat ataatgtgta aggcgattct 180
 gggagggtct gaattagggc agagcatcat tacttctttg attttatctc tgttgttcca 240

ttactctatg ttattcatct agtttctggt actgtatata tagagcacta ctctatcatt 300
 caccnccag aacataacga ctactctatc attgccctgc tattccaatg tgaatacttc 360
 tatcaggatc ta 372

<210> 29328
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29328

taaggcacct gaatcgcca aagtaaaagt caccttatgt gagattatgt tntataaatt 60
 ataatttata acttatctta tgatttaaca tgctaaaaca tttatactat atatacgcac 120
 ggaactatat atctctaaca atttaataata tgtgcagtta aaaaaattaa tatatatggt 180
 aaaataattc catgaatcga actaatctaa atctttgata tattaggaac taatcatttt 240
 aggtctcttc aattttcttc ttattttttc actactacaa aatatagact taacatcgca 300
 tgattaacat cggtttttca aaaaatcgat gttaaaaaaa gcacagtaac atttttgtaa 360
 ataagttgag ttgggtaaca ttgggtnttt aaaaaccgat gttaaca 407

<210> 29329
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 29329

agctttatga ggacagtgc atgcagcagg tgtttttgat gaacaatctt tattacctag 60
 tgcggaaagt gaaggactcg gacctagga aggtcttggg ggataattgg attacgaaac 120
 gccgtggtca gatacgccag tatgctacag ggtatctcag agcctcttgg agcagggcct 180
 tatcttggtt gaaggatgaa gggattggag ggagctccaa taatgcatca aagatggctt 240
 tgaaggagag gttcaagagt ttcaatgctt gttttgaaga aatttacagg gttcagacag 300
 cttggaaggt accggatgac cagcttcggg aggagctgcg gatatctata tcagaaaagg 360
 tgattctgc ataccgctcg tttgtgggaa gattt 395

<210> 29330
 <211> 446

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29330

tattgttggt gcatcatagg cttactaggc ccatctatct aggtatttct gaggatcacc 60
aagaagattc gccattgtga aggacatata ttgtacacat gtgaaaattg agtaggtcat 120
cttatcgtct atgtagagag catattagct acatttggtt ggctgcacat ctttaacaaa 180
agtttcatgt tcatgctagt ttgctacttg gacctttttt agggctcttag taaatgtaag 240
gagtatgctt agtgtggcta gcctgaattc gacatgacaa atcggaggat atgactctac 300
taaaggtgcc aaatttatct atttttatct tctctggctn ttgggttggt tgagtggttc 360
tcatgattgc gaagtaagta tctatatctc tcccctatgt attgaaccaa gtaaaccttc 420
acaatactgt gcgagcgtca ataagt 446

<210> 29331
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29331

agctttctac ttgatcagga gaaanncngg nnngccaaac ctggaaaact tgagctcagc 60
accacaccat acgcggcacc cncgcctaaa aaagaaccac ccaggactaa ccgaccgaat 120
actatatgtg cctctcttct ccctttctcc aaagaacgaa cgactacccg cctgaattct 180
ctcgagtcac cttctccct tgctaagaat tcaaaacgac atagcctgag aattctgttg 240
attcctgcat tccctaatac aaaagtgtca aaagactaac tgcct 285

<210> 29332
<211> 451
<212> DNA
<213> Glycine max

<400> 29332

actaagctta tcatcgttgc ttccacattg aaacggttgt gctggcctat gtttttacta 60
tagtagacgt acatgtgtga tattataaag atggaaagcc tacactaccc ttctaaatct 120
accccaaagt aactttttta taaaaatatt cattctttat tgtaatatata ttttttaatt 180

aatagtatta caaatagttg cattgtttca ttgaacatga tatacgtcct ggacgaggat 240
 aaatgcaatg catatatgaa tttaacctac acttattttt aagttgtcaa tcaaaaatcc 300
 ctctttatat agctttttaga atatttatta tttcccatata aaaatatcta ttattaaaat 360
 taaaaaacta atatctatca taatttatga tttaataaca ataataaaat atactcgcaa 420
 tatatataca tactattttc tattactctt t 451

<210> 29333
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 29333

agcttttcag ctatttggtt actctcccta agagaatgga gccaaacaaa gcttccttgt 60
 tgttcctcaa aagccttgaa atttcaaac atgctttaag acaggtgaaa tgaagggcag 120
 ccatgattca gaagtgaat agccacaaag gaatcagatt ccaacatgaa ttgcttgaat 180
 cttctactcc gtgcaatttc aattccaagc atgatagcct cgagttctgc agttacaact 240
 aaacaatagc atacatcaat aacaaaagag aagttcgctt tgccattata atccttgaga 300
 actccaccaa caatggcctt cttcgtgtct ctattgattg aaccattaat attgagtttg 360
 aactagccat ttgaaggctt gctccaacta atgctttt 398

<210> 29334
 <211> 163
 <212> DNA
 <213> Glycine max

<400> 29334

ttataagagc gggctctgtga gacaaaggtc aagtggtcgc aatatgcat tatgatgttc 60
 cgagtacatt ggatctggta cgaccatgcc ctcctgattt ccagctggga aataggcgag 120
 tggaggaacg ctacgcaacg agcataatgt aaacctgtac ggt 163

<210> 29335
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29335

taagctttat gatgttatta aaggctttgc acctacctct ggcagtaaca gtgacaaaga 60

tgatcataag tacgtttaca actagacatc aaattttact tgagattnta tagtttctga 120

tacttggatc acttgagcat aacagtgggg agcaattgat ggaagatgaa tctcanattg 180

ctccaaggag aaggaagaaa cttgttcttg atggtgattc ggaaagacaa atcacagatc 240

tccatgagaa gtatgtttga ccagatcana ctttngtctg aactntggag catgatttan 300

attagagcct tgtcacacag aaattcagtc tttgttcttt tattcttctt acatcatcgg 360

tacatacatt ct 372

<210> 29336

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29336

cgccgggatg agctgtgatg atcattcana cggcccaa at ctagctgcta tcggcatcac 60

cttttggggg tttttttttt ggtagcttcc aattttggtt aattttggcct tgccccgacc 120

ctttagaacc ggatattgat gtcctgtttt gacgaacaat gtacttaatc cctcactgta 180

actctattaa cattgatttt gatgacgtgg ttaacgcaga cacatggcgg ccccgtagacc 240

ttgatgacta atctgagcat atttctctgg aacaaggatc taaattcatt tttactacct 300

gcgtgctgcg ttcattaggg ccgattttac ccctcatatt ggaagagcaa gagcagcttt 360

tcattactga acattatgca aaccatttta gcttcatggc tatgatgttt gacaagaatc 420

atgcttatac ggtggaactt gtcactttat cacaagaatg tatcaggctt tctn 474

<210> 29337

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29337

agctttctaa agttntctgg ttntctaaac cttgaaaact tgtgctattc atcttttcat 60

tctcttctcc ctttgccaaa aagaattcgc caaggactaa ccgcctgaat tctttttgtg 120

tctctcttct cccttttcca aaagaacgaa ggactaaccg cctgaattct tttgtgtctc 180
 ccttctccct tgtcaaagaa ttcaaaacga catagtctga gaattctttt gattcttccc 240
 attccctaata acaaaagtgt tcaaaggact aactgcctga gaattctttt gtatccccat 300
 tcacaaagta tcaaagggtt aacagcctga gatctttgtc tcaacacatt ggaggggtaca 360
 tcctttgtgg tacaagtaga gggtagatct a 391

<210> 29338
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 29338

ttgatagtga ggaatcaatg ggtccagata ggttgcata tgacatactc agaacttcaa 60
 gtttgtgcaa tgaagatatg gcttggcacc actcgtttcc aattgcagat accttgacac 120
 catctagata caattctgcc agttttgtga ggttttgcaa gagtgtacct atatttggct 180
 tctcaagttt tagagtatgt tgcgaggtaa atgatgtaga caagtcaaga gtagatagct 240
 tggtagatg agcaatctca attggaattt gcccttgaaa cccagcattt gacaagttca 300
 aatacctcaa attcttttagc aagccaaact ttgaaggat catcgaagaa tggatgtcat 360
 tgtgtgccaa attcaaactt tgcaaatatt gtaggttgaa gagacttgaa ttgtccaagc 420
 cttcactgat aaattcttca ctcaagt 447

<210> 29339
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29339

ggtagtgcca cgcccatccg cgattataga taaaaacaac ttaaccaaac attntgttca 60
 caaagaacta cgtagggtctg atttccttat cgcaattaag gaatacgtan gagcaagggg 120
 nataccctcg tcgaccgcaa aaagataaaa aatatataa aggaataaag acgtaaaagg 180
 gaacctaaaa attgaagtca tgtttgcaca tttaaagggt gttgtctcct gtgacggacg 240
 cgtgggggtgc taataccttc cccgtgcgta aatacaactc ccaaaccctt cacttaaagt 300
 tcgtagatca cgtcttttac ggtttttctg acgttntcct canataaatg ttggtggcga 360

ctccgcgcgt attcctttct tggaacacac acccgcgagt cacgtgtc

408

<210> 29340
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29340

tgcctaatta acctgaaatt gagaganaat gattattaaa cacatTTTat ggaagtacta 60
agtatttatt acctatactt aatagaaaat acttataaca ctacaaaata accataaatt 120
ggaagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt attcaccgac 180
taacaatatt caagagatta gaaaatactt cagcaaaatc aaccacagtc caaaatctgc 240
aaacggagat taataatttg aaaaaggaag ttaatgaagg aataactacc aaggaacacc 300
cttcattaga gcgttattcc ccttcagat atccaaggaa ggaataacta ccattaactt 360
aggaagaaaa attacattct atttttctac taaacctatt tcaagaaata taaatttcat 420
agaanagaan atcaaccaa ttaatttctt anaagatgaa gtc 463

<210> 29341
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29341

agcttcttga tgttgtttca agattgattc aagttggttt gatgataaca agagatgatg 60
accaaagcc caatagaatg atttcaagaa tgagtcaaca attcaagaat caagagaagt 120
taattattac aagattgagt caacaattca agaatcaaga gaagtttgat ttcaagattc 180
aagaaaagat gaattcaagt ttcaagagaa gaaatcaaga agacttcaca agggaagtat 240
tgaaaagatt tttcaaaaaa caaacatagc acagttttgt tttttaaaag agtttttctc 300
anaattttct aagttaccag agtttttact ctctggtaat cgtttaccag tttcctgtaa 360
tcgattacca gtgacanaag ttgttttcaa aagctttcaa ct 402

<210> 29342
<211> 457

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29342

gtatcaacca taatcgtgat catttccctc tcagtcgtag gtgggatgac ttgngctgct 60
aggtctctcc acctttgagc atgttccttg atggactcat gtcccatatt gctcatgctc 120
tgaagttggt tccgatcggg agccatatct gtgttgatt ggtactgtcg caacctaccc 180
ttcggcggga gggcgacgcg agactcgcg gatgcttggt ccacgaaagg aatacgtgcg 240
gagtcgccac caacgtttat ttgaggaaaa cgtcggaaaa accggaaaag acgcgatcta 300
cgaactttnt agtgaaagg tggggagttg tatttacgca cggngaagg attagcacc 360
cacacgcccg tccaaggga cgacagcctt taatcgaatg tgcaaactg actnntgatt 420
ttatgttccc ttntatgttc ttatatectt tataccc 457

<210> 29343
<211> 399
<212> DNA
<213> Glycine max

<400> 29343

agcttgtctc agcgtttatg cgatacggag accaactatg tagctatcat cgccaagtac 60
caagaagagt taggtctagc cacggcccac gagcatagaa tcgcggatga gtatgctcaa 120
gtgtatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg atcggtttgc tcttactttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
tgtatggctc ctacagacctt gactagatac gacttcctt 399

<210> 29344
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29344

tgtgcanatc anatactcc tacatttcat ctctagcatg cattntcttt ctttactcac 60

tcctcacgtt tggttnttta gggaaaaaca ccataactaa acgcgccgca agggatccct 120
atcgaccag atccaaatct agaatgatgg gtgatcaaga ggagacgcag gaacagatga 180
aagccgacat gtcggctctg aaagaacaaa tggcctccat gatggaggcc atgttaagta 240
tgaagcagct catagagaag aacgcggcca ccgccgccac tgccagtctg gctgccgaag 300
cagacccgac tctcttgaa ctacgcacca tctccctca nacatagtag gacggngaag 360
ggacacactg gggcacgatg gcagtcctca cctgggatac aaccgagcgg cttaccctta 420
tggatngccg cccaactatt caccaccgt cttgcaagaa ga 462

<210> 29345
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29345

agcttttctt gaccttgat ttacagggaa aaaggctttg acttcagcca gtgatcataa 60
aattgatgac gatgatgata acttagatga gtttcttgac gggatgtttc tgtgatcttg 120
gctgatttga ttgccatacc tgaaaagtgc ttccaggcgc caaagctggg caaatagaaa 180
cggttaggca gtggtggaga caagtgggtg atctgtaggt agatgtctaa aatataggaa 240
acatggtgac caaatggttc ttgacaaaat tattcaccct gttgtatcct tcaaaattat 300
gtccatttat gcagactata acagttcagc atgctagttg agtttgtatt atgtacagtt 360
tgtatagtct tttcatctgc caataatgaa nattgcgtag ctg 403

<210> 29346
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29346

tcggcagaaa cgatcacgtg gatcaaggca caatacaatc accatatana aatatttata 60
caatcatcac agatccaaca aanaggagca acaccagat cacaaaaacc acccattagt 120
ccaaatttca aaactttcca caacaaaatt aagaacacc aaatggggta gcaccagat 180
catcatccac aaacagatat agaaacggag aanaacagag gaatgagagt agaanataac 240

ttacgaatcg gcaagcgatg aagcgaagaa gaaggagaaa acacgaagac aagaaagaga 300
naattttcag acacagaaga aatggaaaat ggtagttctc agatttagat ttggactcta 360
cacactntct ctgtatatat atagacgcgg ttnttatgca tgaattatnt gatcaactct 420
gagttcgaga aagctaaggg gagccacagg atcatatcaa gtga 464

<210> 29347
<211> 403
<212> DNA
<213> Glycine max

<400> 29347

agcttggtga gttgattctc gtatcggttt aattgattac agttgtttca taatcgatta 60
cactgttatt tgagacaatg attgatttat tcaggagtct ttcttttaaat cgattaccaa 120
gtggattaat cgattacttc tctctcattt agttgttcaa aagtgaacaa gaacacttta 180
attgattact tagagcatct aatttacttt gtagatttaa tcgattatag gtgggtataa 240
atgttttctc tataaataac catcttgtgt tccttccaaa acatatcaaa agaataactca 300
atatcttgaa aataacccat tagcctctta atgagaaaga tctcaagttg tcattagtga 360
aaagagaaaa aaagaaaaaa gctgtataat tactcataac ttc 403

<210> 29348
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29348

caccttcttg ctaagccaat ctgctggttt atcgagcatc tgctaattgc aacactcatg 60
tgctatgcgc gaggaagaat ccacaagaag atgagctnta caggttcgct aagcgccctg 120
cttcagttca tccgctaagc gagaaaggcg cgctaagaca aaaatcacta acgtgggcta 180
agcgggtccat aagtgcgcta agcacacgaa cacgaacaag gctacctatt taagcctaaa 240
ataagatttt gtgaacaaag tttggactgc gattcagagc tttgcatatc taggggttct 300
ggagagagaa aggtccaagt tccagagagt tttgaaagat tctgctgtgt gaagatttgc 360
agagaccaga gcttgaagca agagccngnt taagagctct agatgagtct gtgagtgatt 420

gtgagatcct

430

<210> 29349
<211> 249
<212> DNA
<213> Glycine max

<400> 29349

ctttttcaac attgatgcaa ggggcatga tgataacaat agaggaagac aaaagccct 60
actgaatgat ttcttgattg gggcaacagt ggaggacca gcattggtca tatattgcgc 120
caccgcttca acatctcaag cctcctgaga agttagattc cgggattgaa gcatagatga 180
ggcgggggttc aagagaagaa atcattagga cttctctggg gaagtatcga tgcgatttat 240
cacaaaacc 249

<210> 29350
<211> 336
<212> DNA
<213> Glycine max

<400> 29350

gagaatgata acgtatgcat acatgatctt gctgatgtca ctacaagaat caccacaggc 60
tggttgagct tgatgaataa tacactattg ttactaccaa caaggactcg attccaacga 120
cttcaagatc caccatatct cacaatgctt gggttcaagc catcacaggc ccatgtctgc 180
catcacgat gagttattag tgaagtgacg attacgcatg aatatgtact caagaacacc 240
atactttgaa ccgtaagaac tcttatagat attgaaggat cgcattctgt accataaact 300
taggaagaga aatcacatac tctaattctg ctatcc 336

<210> 29351
<211> 237
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29351

atcaagaacc gatgctncca ctacagagct cactctccag actagttcca ggcactaagg 60
attgatatca caatgagagt tgctacttgc acttgatatg acccatccga gtctattatt 120
caataactaa ataccatgtg agagcgacat accttacact gttaattggc gttacaaccg 180

aagacatcat tatgcttttc caagcttata gcaggccga catcctcaac atcctta 237

<210> 29352
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29352

tgtcacatgg aataatgtac atacaattca naattntgta aatctcttaa atcatcattg 60
taattaattt caatatcaat taagctttga taaagcaccc aaacacaaaa cttactatag 120
tctgagttac aaatttttag ggtgttacat acagcctaga aaggtaaact tttgagaagg 180
ccaggtaagt tgcccttgtc aattttgtgg tgggtgtatat tcccacttac acaatgcaat 240
tgatgggtgc cagacaaat ttgtgataag taggatatgt tgggcattag tttatttgga 300
gtggaaatct agaggggagc ctccatctgg ttaagtggga ttctattatt cagaagaaga 360
ggtctagggg ttcgagtagc tagacttcat aatattgctt tgggttgaaa gcttatttg 420
gatattctcc atagccctaa catgc 445

<210> 29353
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29353

agctttcatg atttacattc tcccatntc tcagacaaat tcttcttgac atcatcaaaa 60
cctgcatgat ttatagcctt ttgcctataa ataggcatcc aaggggtggt ttaaagggtc 120
ccaagggtca gaagtggaga gaattgagag aagagataaa gaagaagaaa aaagaagagg 180
aaacgaagcc gatgcgtac cgaatcgga cgcgaatcat tccctacgtc gtttcttggt 240
cggtgttctt tgcaccagtc ggtagttct attttttaggt attgaatgtg atctatgtac 300
ccttaggggt ccccttggtt attatgtaca cattcatctt ttccatctat catcgacaat 360
ctctttttct aatcttaacc aatcactagc tgcagtaa at tg 402

<210> 29354
<211> 442

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29354

tccccgcctt caaggtegca tctctattcc tagacttggn ttgcttacac cacagcttcc 60
ctcgaagcat catttctgat agagatcctg tgttcttaag ctccttctag cgagagcttt 120
tttgactcag tggcaccocat ttacgtatga gcacgatgta tcaccacag accaacggcc 180
agatcgaagt gatggaccat gtgttagaac aatacctacg ttcatttggt cattcccaac 240
cggcaagttg gttccgttac ctacgcttag cagaatagtc gtataatact tccctttatt 300
ccagttcagg ctntactccg ttcgaggcaa tatacggcaa gccaccacca gtgttgcccc 360
attatcttcc tggaatgacc aacaacgagg cggttgaatc actggtaaag ctctgataga 420
agatccatgc aaagcttcaa tg 442

<210> 29355
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29355

agctttatca aatattagag agggatctcc aagtaattcc ctcattatct ctcatgttct 60
tccctctttt tccctttcct ctcttcttct tctctacgt tcttcttcta tttttatttt 120
ttttaagttc gtagcttcgt cgtttgtctc ggtggtgaga tctatggtcg tcaatgagat 180
ctgtacaagt tgatatcgtc attttttctt ggtgctttat tttgtttcat gatttttttc 240
gcattccatc atccttttct tctttctctt ccttcttttt ccattttccg atgaagcctc 300
gtgcggtgct gccatggttt aattnttatg ttgtanataa gtcaacatac tcatacaaaa 360
taattcgata taacatgaaa taatac 386

<210> 29356
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29356

actaagcttg gcaatgccct accaggcctn ttatTTTTat tccctttatg gggccttttg 60
gaactaattc tgacatggtg ttctTTTTta cgttatttgc atgcattttt catgcaaacc 120
gccattgcca ataacgattt ggctgcagca cgacatgtgt ctgggcaaac cgccaacact 180
gtgggcgact tcatgtggaa gggcatcttg ccacttgac tggcgagtgc atcactgctg 240
ctgaaaccgc aggtttgact ggcgagtttc ggaaatggca ggcctagggg gcaggacgtg 300
cangtgcaag ttgctTTTTg acttcttggg cttaagggga gttgccactt gctctggcaa 360
cttaagtaaa gggaaatcgc ctatacgttt ggc 393

<210> 29357
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29357

agctttgtgt aatcgattac actgattttg taatcgatta ccagtgatca tttctgaaca 60
aatcaaaaga tgtaactctt caaatagttt ttgacttttt caaattgggt ttaagttttt 120
ctaaaagtca taactcttct aatgattctc ttgatcaggc gtgaagagtc tataaaagca 180
agactttggt ttgcatttca catctatcca atcaatcaat ctatacatca atctttttcca 240
atttattctt tacacaagca agttttccac attgctttct gagtctctnt gaacttcttc 300
ttctttcttc ttttgccaaa agctttccaa agttttctgg ttttcgaaac cttgaaaact 360
tgtgttattc atcctttnta ttctc 385

<210> 29358
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29358

tgcacaanaa tgatngatc aaccaagatc ttagatctat atgtttccaa gttcacagg 60
atgacaaaaa gaaatttga accaagactg agagttttgc acgaaaatgg taaggaaaca 120
agaagagaat gaagattaag agtctcttat caaagctttg agggaagaag ccccaaggac 180
aattgtatga agcttggag aagaagaaga agaagacaat ggactcctct cctcccttg 240

aagaactcat gaacaacaat ggagaatgaa gggtccaagt ttgatatttt tggaggagtg 300
aagagataag gctntaaggc ttgggtccaaa tgaaacttgg ttaggcttaa tgttgataag 360
atcaaattga cacaatgaat gaccatctga tagccatggg ggaagtgcta aatgcggcca 420
tatat 425

<210> 29359
<211> 483
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29359

cgactccggg ggttgagcgt tganncttga tgcctttgan atcccggcga atcanctcgg 60
accccgggat cctatacagn cgctttgcng catttttagct ttaataaaaac cttccgaagg 120
gccagcta atctatctgt tcgaaatggc cttcttggct actatcggaa acaccagcgg 180
tggtgcggtg cctgtgtgtc tccatttcta ttaccgctaa attaataattt aaaaattctc 240
tgtctaagcc ttaatgggta tattgattat agcctagcta tcctccaaca acatgtgcat 300
tcatatgaat tatttcttta ttcctctgca tattagcgac catgtggcaa gtggaaaact 360
aataaagatg aacatgtgtt cctatacata cattatagta agggatacct tcatctctct 420
tcccttctaa aaattagctt cgaccatatt aagatatttg aagaaaaaga taatgaagat 480
ccn 483

<210> 29360
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29360

ctggcaacat agctatgctg gagagctttg tagcncattt tcttatcacg gtcgggtcca 60
cttggcaaga aacaattcgt ttgtaaaatc tctcaagcac acaactgact tatgtctcag 120
ttacaaattt tgatggcgta actcttttct ggtaagaggg atcatatatt cacactccca 180
cattgacctt ggatatcaag tggttgccgt aagctcagca tacatacctt tatcggtggg 240
tgccgaggat attgtgtgca tattccgagt ggtggtgact aagaataatg agatggaaaag 300

caagatgagc acctgcttta gtaatgggtgc atttactatg caatcactat gccaggtgac 360
gagtatgtca gacaaataat ttcgattggc tgtaagctaa ctgggatatac atgggtcacgc 420
cacgtgcaca tgcaact 437

<210> 29361
<211> 373
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29361

tcaagcttta tcaaaacaat tatctaataca ttccaatcca ctcaaatacat acaattgctc 60
attcaaataca ttctcaaaca ctcatctcat acaaaacaat ccactgcata tcattttcaa 120
ccaattcact gttcaaaca gctttttgta caagcaaaca actcanagta ctgaaattta 180
aataacttgg aatttaaaga actgaaacat aaaaactaaa atttaaataga ttgaacataa 240
atcataaaat aactgaaaat aaactaaaat gttcaaaata gaagggctca ggaggagtga 300
gctcatcctc cccctttact gctactgctg gctcctctgg ttcaagctcc tgggctgcag 360
aagccccacc cct 373

<210> 29362
<211> 363
<212> DNA
<213> Glycine max
<400> 29362

tatccggggc tccatcagca gggcttttat atagaaatat ttcatgccta cgcaggcgca 60
cggtcaggca ctgcagaagc acgatgagga ctaacagtag ccagctgtag gtgcactatc 120
tgccccctcta caagagacag tgggcctggg gttcatcttc gctcacctgt ggagggttaga 180
gcttcaaatac cacaggtaca tgcagcatgt gactacccaa caggcagcta atcacagggt 240
catgtgaagc taaacacgac cttctatcgg tacactatgc actagcagag tcagaacacc 300
agtcctttcc tgtggactac ccacgagcaa ttccggagcca catttgctg gctgaacat 360
gcg 363

<210> 29363
<211> 386

<212> DNA
<213> Glycine max

<400> 29363

agctttatgc catgctacaa tggttctccc tgacatctcc gcggcagctc cgaggatttc 60
ttgggtctaata tggattctat cgacaatttg tccagaatta tgcccacatc gcagagccac 120
tcactcgcct attgcgaaaa gaacaatttg agtgggtctcc cgaggcacaa ttagccttcg 180
acgatttgaa aatagccatg acaaccactc ctgtcctctc cctcccagac ttcacgattc 240
cctttgtagt ggaaaccgat gcctcagggc caggcatggg tgtcattttg atgcagcgca 300
gccatccaat tgctacttc agtaagcaat tctatcccaa attgcttctg tcttctacat 360
acatctgcga gttgcacgcc ataacc 386

<210> 29364
<211> 445
<212> DNA
<213> Glycine max

<400> 29364

gagtaacgca accggttcgg ttactcgctt cgctccaacg cgattgtata gaaacggcat 60
acgatcaacg aggtcgtagg cactccggct ccgatcgctt ctacagagatc gcagttcgtg 120
atcgctaacg ttcagatccg cagcgttttg cacttctacg tgcttttcct tcggcgggctt 180
tggtcttctt gtctgcgcaa tcgggtgggt ctcaacctcc ggcggcggca ccgccgcctt 240
cggagcctcc tcctttgggt tttcttcttc ttttgatgct tctttagggt tattctcctc 300
ttctttcttt tctcgtctt gcgtttcttc tgcttatct tctttcttct ctcttcttg 360
cgaattctcc ggcagcttct cctccgatgc cgggtggtgct gactctgctc tctctctcc 420
gggcgtctct ggtctcgggt gatcc 445

<210> 29365
<211> 408
<212> DNA
<213> Glycine max

<400> 29365

agcttttatc aaactgttcc tagtttctac atataagaag aacttatacc ctcttctcaa 60
acaagagatt caacagaatc atagagaact agcattttta acttcaggag cacctataag 120

taagtgaaat cttcttgttc tcttggcatt gctttattgt ttcttatagc agtaatgagg 180
 agggtaatat agcaccatgg ctaaataagt aaatgatatt taaatgcatg ttcggtaggt 240
 tctgagaacc aatggaccac tagctggtgg gagcaattca tggttcttct taagaggggt 300
 ttaatggaaa cgaggcatga atcttattcg agattaatga ttctccaagt cttgtctgtc 360
 tcaattctct caggacttct gcggtggcat tctgatccct cacatata 408

<210> 29366
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29366

tatgcctctc tctctctctc tctctctctc actngagccc tacttatgca tataattgtc 60
 ctattctcct acctcatatt cttacttgag ggtcacagtc ctctatcttg ccagtccccc 120
 cttcctatca atggtatctt tctaaaccga cgtgtgaagt ctgagacccc atttcatcca 180
 catctaccct gacatgtcac ggatctggat tttggcaaga acatgatttg tgccaatatt 240
 taatgggctt aacttcttta actagaatga gcaagtccaa tttcaccttg ctgtatggat 300
 cttaatcttg ctatattgga agaaaaacct gcagctatta ctgattctaa gtgcaatgat 360
 gagaaagccc attatagagc ttgtgaaaga tttaacagac tcaacctaat gcttatgaga 420
 atgac 425

<210> 29367
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29367

agcttttatt ntgttatgat ttttatgttg ttaggctagt tattagaatg tatgttggtta 60
 ggggtttact ttcgcacgta atgtagggtta ttttgcgttg attntattag gttttgagac 120
 ctaataaggg cctatggttg ggggctgaaa accccaagtt ttttggaaaa tttgatatgc 180
 ttgctaagcg cgcttgtgca ctaagcgagt tcatcaattt tggtgaattt ctgggtttcc 240
 agatgaactc gttaagccgg ccttgtccca ctaagcgtgt tcatcatttt tgattgaatt 300

tatgaatggt tgcataaact cgtatagcca ctacactttg ggcttagcga gagtttaaat 360
 ttccagtgtt tattttaact gtcctatgaa ctgcttagc c 401

<210> 29368
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29368

ntgaacaata tacttggcct tcatttaact gtctctgggc ttggctgnca cgctcattaa 60
 agtactttcg acacctactg tacgttgatt tgaccaaggt tgttatggga atgttgcgac 120
 aatccttcaa aaccttattg atacattctg agaggttggg tgtcatgtgg ccatatcgac 180
 gtccttctct atcataagtc atcgctcatt nttcctttga aatgcatgca atccatgttg 240
 ctatggctgg acttagttca cgaaattttt ctaaattttg ataaaaaaaa tgtgcttgca 300
 aggagtgtag gatgcataaa attagttatc aataaccaat ttaagtatat aggggaagta 360
 aataaacgtg accatcaa atganatctt acccaacttc ttcaacattt ctt 413

<210> 29369
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29369

agctttctga atgattaatc gtgaaacat ttcaaaactt caaacaagat tcacccatat 60
 tgtgaatcac ttgcttgatc ttggaaaacc gtttgaagat gatgagctaa acatcaagat 120
 tctcaattgt cttacaagaa ctttggaaacc aaagatcaca gcgaccaagg aatccaagga 180
 cttaacatca atgtcgatgg aagatctctt cggaaaattg cttgtgtatg aacatggggt 240
 gattcaacaa tctcatgtag aagaaacata aaataaaaga aaaggaattg cactcaaggt 300
 tagttcttca aaggaagatt gcaaagaaag ctctagtgat gacgaagatg tagagaattt 360
 aagcttgatg gtaaagaagt ttaggaaatt tctcanacaa t 401

<210> 29370
 <211> 406

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29370

tcatgatgaa acaataatga ttcanagatg ttttgatgat aacatttgtg atgacattaa 60
gctcanaggt caatcaaaga atgagttcaa gatgttcaag atagaatcaa gaaagaatga 120
gttcaagatg ttcaagatag aatcaggaac acttcaagat tcaaggatca accttccaag 180
aatcaagatc aagattcaag actcaagatt caagaatcaa gagaagactt aatcaagatt 240
caagattcaa gaatcaagag aagacttaat caagataagt atgaaaaggt tttttcaaaa 300
gctgagtagc acatggatgtt ttctcacaac atgtttacca atgagttttt actctctggt 360
aatcgattac cagattgttg taatcgatta ccagtagcaa aatgaa 406

<210> 29371
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29371

agctttcaac aaatgtcttc acaaataatc atcacacagc aganacctag caagactact 60
catcatatct ccccaaaacc ccataccac gaaatttaag agagaaagaa gtccatccaa 120
acctgaaatt tcgaaatccc actcgtagcc acgcacttca cgactccaaa aatgctctcc 180
tttcgcgatt tggagcagaa atgatggcca aagggttgag ctttggtggg gtttcaatgg 240
agaatggagg agaaggaaaa agcaacgtga ggaagaggga gagagagagc tggtctgaaa 300
ttgggctgag tgaagagaga gaggggtgct ttttgggttt taataaaaagg gttttctctn 360
tttctattat tntatttaag caatgccaca t 391

<210> 29372
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29372

taaggtaacc ttttggctct ccacactcat ttctaagtta tcatttccca tgtccaaaac 60

acatttttgcg gtaagcatga atggtcggcc caatatcaag ggaatatcag aatcctcgtc 120
tatgtccatt atcacaaaat ccatcggaag ggtgaattgg cgaaccttaa ccaagacatc 180
ttcaactaca ccatatggtc atgtaatgga ggggtctact agttgaagag tcattatagt 240
gggagctatc ctcggttct caattctccg acacatagaa agaggcataa aattgatgct 300
cgccaccaga tcaatgagag ctttaccac tgacacagtc ccaataaagc atgggatgat 360
cacacttct gngtctttga acttctgtgg tagaattcta tggatcaca aactacaatt 420
tcctttcacc ataatgctct cattg 445

<210> 29373
<211> 371
<212> DNA
<213> Glycine max

<400> 29373
tttgaagctt ttttcaagac ttagaaatca aagatattcg agatggatga tcaagacagg 60
ctctagagtc ttaagaagag tatatttaat aggaagagaa ttccaattga agtagcataa 120
gctttggcca ataaatttaa gttaaaaagg ctttttcaag aaatttactc tttggtaatc 180
gattaccaa ggatgtaatc gattaccagt ggccaaaact gatttacaac agctattaaa 240
atttgaattc aaaatttgca ctgtgtaatc gattacacat atatggtaat cgattaccag 300
cagttattaa gacgtttaat tcataatttt aagcttggaa tcgattacac aaatactgga 360
atcgatacca g 371

<210> 29374
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29374

tgcccagaga aggagtccat ggaggacatg ctttcttctt caaattactg gaaagcggnt 60
tctaatact cctctgccc ttccacataa ggcatagagg atgggaagct caccaagatg 120
tcttctctgc ctgatacgat gaccagatgc ccttacacta tgaatctcaa cttttggcgg 180
agtgttgagg gaacaactcc taatgagtgg atccacgggc gcccacacag acagctgtag 240
ggaggggttaa tatccattat ttggaaagta acttgacagg tgtgagggcc tatctgtact 300

gcgagatcga tctctcccct aacctctcgg cggttgccgt cgaaggcacg aaccaccgtt 360
gaactcggct ttaagtggga ggcattgaat ggtaatttct ccaaagtgc cttacgcatc 420
acgtttaaac tggaaccatt atcgatga 448

<210> 29375
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29375

agctttgtnt aatttttata aagagttaaa attaagttca gaagtgagtt atgaacaaag 60
ttaatattta taattaacta attattaaaa ctacatcatt cagaaaatat ttctcaaaaa 120
ttataaaacta caaaaggtag tttaatcagt gtcactatca ttccaattct tttgtcttct 180
aattacaatt tctcatacta tgtcaaaacg tctataataa aaggagactt catctccatg 240
atcaaagtca ctttctgcaa gaaaatcata ccattggtga gcaatggctt taggagcaat 300
tccagggctg agagtctcaa gagggcattg cgatggacgg ctaaatcgtc ttaatactat 360
catgtgatgg ccacaagcat taagaga 387

<210> 29376
<211> 444
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29376

actaagcttc ttaagaaatt ctaaagaact agagctttgc tcacatatct tctattagct 60
aagctcacct cttgagatg agaagctaga acttagctac acaccctat aatagctaag 120
ctcaaccnca tgacaaaaaa catgaaaata caaaaaaaag gtccttacta caaagactac 180
tcaaaatgcc ccgaaataca aggctaaaac cctatactac tagaatggcc aaaatacaag 240
gccccaaacga aggaaaaacc tatttctaata tttaaaaga taagcaggct catacttagc 300
ccatgggatc gaaatctacc ctgaggcaca tgagaaccct agggcctacc cttggatctc 360
tagcccaata tacttggagt cttctaccca attcccttgc gggataggat tgcatacaca 420
cacattcatc ataccaccta tcat 444

<210> 29377
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29377

agcttgtccg aacaattgga gcatgacgag tcttcttgaa gaagcaaata tcccgtgga 60
 aacctaccta aagcgaaatg gccttagtag cttgatatca gagcagcaaa caaattcagc 120
 ttcaaattgt caagcacaga caaccaatga tagtgaggga aaacacaatg aggattgtgg 180
 aaccgctttg gttattcatg agaggggaaag cagtcctgaa gagaacagtg ggcaagacag 240
 agagcaaaac aattcactct catgaaatct tgccagttat attataattg ttttttcctt 300
 tgttttaact caaaaatcat tttaacaaga tccttgcata aattataaaa ttataggagg 360
 ttcattagga tggctatatt nttttttct 389

<210> 29378
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29378

tgtcagaact tgtntaaca naaacaaga aatttcttga tcaacttagt agcctcatal 60
 ttattttttca ttaaataata ccatgtaaac ctagaactat catcaacaat agtcaaaaag 120
 taatgttttc catcatgagt agcatgttga tatgggcccc acgtgtctac atgtatgaga 180
 tcaaattggg actcaaaata atgggttattt gaaataaaaag agagccttct anatatggac 240
 aggggggcaga tcatgcaatc tttagaacta tgagatgtca aatgcaatga atttttattt 300
 gcaaaaagtt tcaaaatctt gtcagatata tgtcccaaata gggaatgcca caaagattgt 360
 tctaataaga cattacaact tgtaactata ttattancaa ttgaagaatg tgaattcaca 420
 a 421

<210> 29379
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29379

agcttggttta aattatgatg gattaaaata atatagcatt gccaggacta atgatattac 60
 aagacagact gaaaaaatgc ctattgttct gtttcatgat aaatgagcag cagcagctaa 120
 tttataacta gaggagggat caacttacac caagagtaac tcttctagtg aaaattttca 180
 taccaatttg gataaagcaa ttcaactatt atctaagtga aaattttctt ttaataaagt 240
 gtcgttactt ctgtgtccca tgaattgagt taaaggccac ccatctttag cagagtacaa 300
 agaatttctca tacttgaatt agcacaagcg cataatagca ttggatggaa cccttcaatt 360
 ntattttaagc aatgattttt aatccattaa taagca 396

<210> 29380
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29380

tggttaccct ttacctttat atagcttcta acatcttaag gcactgtagc ttcagtcata 60
 tgtagnngaa tgtcatgaac aacagctgag aaaggctgat ggctctgctt catttgagat 120
 acatggaaaag catcaagtat tttggctaca gccgtggccg gtaaggggaat ttttgaagca 180
 cccggccaaa tcttatctat gagacaatga ttntatagga accatagaat cttgggtggt 240
 tactgtgata tgcatacatg gttgtagttt catatacacc acccaatcat ccacttgaaa 300
 cttctgtgat attogattat tggatattgt tagcttgttc caacattcta ttntgagctt 360
 ctgtcaaagtg aaggtagaac gtgaagggtg aaaacttgat ccagggtgtt ttacttgtga 420
 agt 423

<210> 29381
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 29381

tcaagctttt attttgctat tgaagaaaat aaatttaa atgcaatgat aaaataatga 60
 aaacaaattc agcaaaatca tgtttggtg caaaaagtaa aaacaaaaag aagtttaatc 120

cacatgtggtt gaagcaaagg aactacataa gatttataaa agatattcgc atattcaagt 180
 gtcgtttgtg atattttctac acacagatat aaaggaacaa ttacaaatat ttgttatgtt 240
 ccatgcttca atatttgatt agatacataa tagtatcaat cggtagagtt taagcttgaa 300
 ctaccctcac aatacaattt caaagaaatg gaataagaga aaaacaaaac atagaacaaa 360
 atacaacgtc taaatgtaag gaaatggaga aacta 395

<210> 29382
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29382

ttgctgattt agtntnctgcc gatgaattga tcgaagtggg tctataaata cgcaaactctg 60
 atcatcatgc tttgataaat acaaaaaaac tagggcaaat gaagatgggtg agaataacgg 120
 agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180
 tcattactca gccaaataaca aaccttctcc ttaccaccca cccagttatc cataaaggcc 240
 atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300
 caciaaacag aacaccaacc aagaaatgaa tnttgcagcg aaaaagcctg tagaattcac 360
 ccgcaattcg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
 cataacccca g 431

<210> 29383
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29383

tcaagctttc ttgtgaagct tctatggagg ttggatcttt gagcttcaat gaggtccttc 60
 aatgctaatt ttccaccatg gagatgcagc ggaagataaa ggagaaaagg tgagaggagg 120
 cgccatccac taggaaataa gccatggaag aagaagcttc accactaaga gagtgccttg 180
 gataaaaagc ttagagagga agcttcaatg gaggaaaaga aagagagaga gaggggaggg 240
 gagcataaaa ttgaaggagg aaaagagaga gagaagttga actttgaaat gtgtctcaca 300

agactctcat tcatcaaagt tacaacaagt gttacacatg cttctatnta tagcctangt 360
agcttccttg agaagcttct ttcata 386

<210> 29384
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29384

tgcttggtgg gcttctatgg aggctggatc tttgagcttc aatgttggtc tttgatgggtg 60
attttccacc atggagatgc agctgaagac aaaggagaag aggagagagg aggcgccatc 120
cactanggaa taagccttgg aagaaggagc ttcaccacca agataagcct tggataagaa 180
gcttgagagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gagggggggag 240
cacgaaattg aaggaagaca aaggagagag agttgaactt tgtgttggtg ctcacaagac 300
tctcattcct cacagttaca acaagtgtta cacatgcac tatttataga ctangtagct 360
tccatgagaa gctntcttga gaaaactttc ttgagaagct tctttgagaa aactttcttg 420
agaagctaga gcttagctac acaca 445

<210> 29385
<211> 385
<212> DNA
<213> Glycine max

<400> 29385

agctttaatc ttctagaagc accatgagct aacctcaaat ccatcaccat aatgaagtca 60
cacctaccat tctaaaaact taattccatt ccaaaacgac catatatagg gaccaaagta 120
caacattcca aatcaccatc taaagaaaag ttcaacggtg ttctacatat gttccaacca 180
agcacacaca gacaaacatg tcattaacac aaattataag caaacaaga taggaagacc 240
gcgagggggg atgagcgagg gaaaatgaac cttacaaacg atgagagagt gaagctattg 300
tgagggcgag ggcattgcaat gatgacgacg ataacacaca cgagcttcga caacaacact 360
ggacaacttc gacatagacg ctttt 385

<210> 29386

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29386

tgtacgaata taagaaacat cttcttcgac cttggtgac tttgtctcca tgtcatcgaa 60
 ttgcatgtcc acttgtaact caagagcatc aacctttcac caacaaaggt ttgaagacca 120
 tcaaacctat ccaaaacctt ttgaagaaga gaggaatctt ctccaccatg taaatgtcct 180
 tcttcatcaa tgggttgagc accctttttc acccaagagc catcatgctc tttacgataa 240
 ccaaaggatg caatcatagt ggcaccgatt aagaaggatc tcttgattgg aacataaggt 300
 tcagaatcag gagggatggt atagtgttta aggaagagag tgactangtg tggatatggc 360
 aatgtagcat ttaatcgcaa tgccttatgc atgcgatatc ggactaagtg tgcccaatca 420
 atttgtcggc ctttat 436

<210> 29387
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29387

agctttcttt actcaaacat ggaaagaaga caatatatac aaggcattac caattgatta 60
 ggagaataaa tttttcctta taaattttta caaatatta ccaattcttt ttcccatata 120
 ggcatgcaat aaccccaact gcttaatcag gcttgctga acttcatctt ggaataattc 180
 ctggattagg aggtagtaac tggatccaag attctctcca agactgttgg ctaatttccc 240
 tagcacaatn tgattttttt ttttgtaaaa atgaaaagaa gttagaccgt gagtgagaca 300
 ctntaacagt gcatgtctta tgactatttg tccttattta tgaaatnttc attagtatta 360
 ttaacttaga agttaaa 377

<210> 29388
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 29388

agcttggttat tactatctcc cgctttgtga tgatgacaac cctaatatca agaaacacat 60
acacattctt tgtcctagtc gatcactcac ttaatactcc atattctccc cctttgttct 120
tgagtctaag cttcacttga aattaagcta ttgaatcata tgagagcttg atttaatccc 180
tattatctct cccctatgg catcaacaaa aagccgaagt tgtaagaata taaaacgtca 240
taaatagatta taaagcataa taccaaagt aagcacatat cactagacat atgtcatcag 300
aataattaag tctaaaactc ataacaatta agagtaagtc aatatagtca tgtcaaggga 360
tactaatcaa atcataaaaag acatactatg tattcacatg tcatagaaat atagatcat 419

<210> 29389
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29389

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ccttccggag gaacatcttg gaaggccgaa gtgggcctgg atactatatg caaccccggt 120
tttactacat acacccctt ccttttattg gtgattcttt ctccataacg ttacagaaac 180
ttacgaattt cgtaacaata ctntttttct ttccgtaatg ttacggaacc ttacagatta 240
cgtaatcatg ccttttatgc ctaccacaat gttacgaaac tntacagatt acgcactatg 300
ctttcttttg gctttcgga tgtctcgga cttcacgaat tgcctaacga tgggtgcaa 360
gtacctcaca gcggtcaaac gacggtcgca tcccagcaat ggatagt 407

<210> 29390
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29390

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aatgcgaaaa atgatgaccc tnaggctgca aactcgtaaa tcccgtaggt atggctttcg 120
aaagggggga aaagaagtn ttgaatgcaa aaacgtccnc ctttctgtca cttttatatt 180
ttgggtgcaga ggtggctcgc ccaggcgagc tcagctcgcc caggcgagct aacctgcact 240

tttttttttt tttgagggga acattaacca tgtccccacc tttttcacgg gttagcggtc 300
 acctaacttg aacctactta agtcagaatt aggcgtcgat tacttatntt ataacaaaca 360
 aatagtaaaa gaaaattgtg aatacaagga tactgggctg ccttac 406

<210> 29391
 <211> 485
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29391

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 ggcattgaag atttggtcac ttcaacactc aagctttgat gttgctgcct caaaataata 120
 tgatgagaga tctaccatgc ctatatgact ataatgaagc ttgtgaagga tgtcttctta 180
 aaaagcaaca aaattaccat tttcaactaa caaagcatgt agagctaaag actcgtcaga 240
 gttaatccac actaacatth gtggaccaat gaggacatcg tcactaaaca acaacaggta 300
 tttcatcttc tttattgatg acttttctag aatgacttgg tctacttctt tatagaanaa 360
 tcaaaggtct ctggaatgtt caagaatttc aaagctcttg ttgagaaaca aagcacgaaa 420
 catatttaaa gtaataagaa gtgttcaacg canagaatat aactcacatg agtttgataa 480
 gttat 485

<210> 29392
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 29392

agcttttgct ttttttgttg ttcaccatgt tgctccttct atctctaaca ctgcactcca 60
 ttccatccca ccatgtttgt ccttaaccac gaaaaacgac tttgttatcc tttgtgtaga 120
 ccaagcaatg aagtacataa aatttgggat aaatatactt ggacacctag taagagagag 180
 agagagagag agagagagag agaaaatata agcagaataa gtgatatgat agtgataaga 240
 aaaaagagaa aaaaaataa aaaatattga taaggtgttt gaatttttgg atgtccaaac 300
 atcatgtttc taaaatttgt ctaaagctta agagcatctc tagcataagg ttcttatctg 360
 gttccttcaa ttgaa 375

<210> 29393
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29393

acagagtggg acctgcagat atgtcgcggg ggtcaggaga ccttcgggac gtcaggtggg 60
 gtgctattgc ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag 120
 tgagaacctg tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa 180
 caagaccaca aagcatagag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg 240
 tggattgtgg cctctggtaa tcgattacca aaggtagta atcgattaca acgcttacia 300
 ttgaggacag gacgctaaga tggctctctgc gtaatcgata ccaaggggtg taatcgatta 360
 ccaggcttga aaacgaagtc aggaaactta nggagcctct gcgtaatcga taccagcctg 420
 tgtaatcgat tacacagagg aatgg 445

<210> 29394
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29394

gttttatggg tttagaatat cgatataatt gagggataat tattagaaac atagagagct 60
 cctaagtttc cagatgcgat ctaattgatt acaatatgtg gtaatcgatt atatcaagct 120
 acaaagactt tcttcttttg aaactagctt gggttatcga ttaattcaat aaaaattacc 180
 aatatttgaa gagaactaaa ttttgttgct tgttctaaca ctntgcaatt gattacttaa 240
 acttagtaat ctattacaca ttgtttgaac ttattgcttc ttagaaactt tgagattaat 300
 ccactatctt tctcatgtnt gataaccact aagcatggat aaagagaact aaatctaana 360
 cacttaacat gcctagttta gaaatatctg atacanatgc catatcttta 410

<210> 29395
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29395

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ccgcttcaca tggagctaga tcatgtggta tcaagagcat ctttttctat gtgatgttct 60
tttgcttcct ctatcttttg gtttgggtcaa ttcacttttag agtagattca aaaaaataaa 120
ccgattaaat cttagatcta cacttggttct tgcatttcaa tgggtcaaat tttatagatc 180
tactctaaaa tcatgttttt gtggtgattt tatgttctat catttttcag tcataatgtt 240
cttgtgttga accttttagat ctaaattttc ttccaaaata ttgattagaa actaagtgt 300
aatcacttaa tccatgttgt cttagagtca tgtttagtca taataattgt cacattatgt 360
tctaagtttg tgttaaactt ttttattctg ttgattgaat tctacatacc attgctcatg 420
tattcttgtc attcttagcc catcttttga atcttgagtc taattcatgc atcgtatnta 480
gttcataaca tt 492
```

<210> 29396
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29396

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attnttatat atacacgcgc gaaatggggg ggacgtgcga tgaggctggg aacatgaatc 60
tataggccac tgggccaatg cgcgcgttga tctgaaaggg tccataaaac cgcttggcta 120
gctaggaata tgtcggagcc agcgacgtct gccggtatgg tcggaagcgg acgtgtaccc 180
atacaccac ctcataagat atatcgcggc ggtgtttatc ggcagcaacc ttcattagtt 240
cctgcgctcg ttgaaggcgg cgcgtcaatt gcgcgtgtac ttgcagacgc gtggtgagta 300
gcgagtcaac ggcattcatt gacgattgac cttggagata g 341
```

<210> 29397
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29397

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acggcaccac cgagcacgga aaacaacgca gccgaagaca gaacatcgac acctccccnn 60
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ccccccaagc ggggtttgtg acaccgtaga acancancgg caancnagcn cggacccggc 120
 gaccccnaga gncgaccggc angcangcaa tcttttttagc taaacgagac ggaccacacc 180
 gagagaagga gaagaacaac gaccacgccc acaagaatgg acggccnaga gagcacaag 240
 gaagcgccac ccgcaacgcg gcagacccaa cccgggaaga tgcagaagga agagccttgg 300
 aggcgaagac aaaaccgccc caagaaggag ggaccgatga ggacacaacc aacgaccatg 360
 aagcactgga aggaccacg accacaagca tacttagacg agcccaacac cgacagaga 420
 ccacgctggc caacaggata gccgccacag aagatgactg aacgccaag cgagaaaga 480
 cgaacgcca gaggcagaag cactaccaag accaccaaacc gctgctgaaa gcccacaaca 540
 acgcggaaga ccaacgcgaa taagtgtcac gcataaggca cgaaag 586

<210> 29398
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 29398

ctggaactac ttattttgtt ttcattggcg ctatgcaggg tgaaagcctt ggaggaaaga 60
 ggtctgccta tgttggtgtg gatgatttct ccacatttac ctgctgtctac tctatctgag 120
 agaaaccaga atcctttgat gtattcaaag agctgagtct cagacttcaa acacaacagg 180
 actgtgtcat caagagaatc aggagtgacc atggcagata gttctaacac agcaggttca 240
 ctgaattctg cacatctgat ggcattcctc atgacttctc tgctgccatt acaccacaac 300
 ag 302

<210> 29399
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29399

cgacgggggtt tgatcgtcga ncacaccacc anaactacca agctgtagcc aatggactac 60
 cttgaatagt gacttttaat gacttttcaa ccccgagcc ctgcgcgtga ggtgaagctc 120
 actaccagcc ttacgtgaaa aaccctgata ttaccatctc cttacagcat ccatgaccat 180
 aggaattgcc tggagcatca gcgtgagggg ttcttagaaa acaccacaac tacgattgtt 240

ggctatccaa gcatgatgag ctaaggacac acctgacgta cacagcacta acggttgaac 300
gctcgacatg cacaatgaac tgtactactca cacaggcccc acactcttta ttgatgactt 360
ttctacaaga ctgctcgat tcatcaagaa cacatacgcg tctatgtgag cgcacgaatt 420
caaaccctcc tgacagacaa acccgaggcc actcctctgc tagaagcgtc acgcaccaca 480
tcactccatg acttgctaaa ctcccaaccc 510

<210> 29400
<211> 298
<212> DNA
<213> Glycine max

<400> 29400

ctgcattttt actoctcgag accgacacag cagtcggcaa gcagacgagc gctacaaacc 60
ttctctacta tggccttcaa caaaagcgaa tccatgtgat aatgactttg aggggagata 120
tatttgtggt gcgcatctca aatgcccaaa gggatgctaa tctacactta gctcctggga 180
gggtgcaaga agtgaaagta atccaagctg gtctgctggt caatataaca actgttctaa 240
tcctgtcttc caccgttata ctcgtaggcgc caagaaaccg gcatgactct tccttaat 298

<210> 29401
<211> 122
<212> DNA
<213> Glycine max

<400> 29401

ccacgactca caaaagactt cgaaaacaaa aaagcatact gaacaccatc ccaatatacc 60
acaaaaccac aacaatacat atgcacgaag aacagtacaa ccaatatacc acacaaacat 120
aa 122

<210> 29402
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29402

tattcntttc attcaattct gagcgtctcg atatatgacg agactcaatc agacatccga 60

gtaaaaagtt attgtcgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120
gctatattac gggactcaat caaacatccg agtaaaaagt tattgtcggt tgaattggct 180
caaggcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240
gagtaaaaag ttattgtcgt ttgcatttgc tcagaggttc aacattgaat ttcgagcgtc 300
tcgatatatt acgggactca atcagacatc cgagtaaaaa g 341

<210> 29403
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29403

ttgagccaat tcaaacgaca ataactttta ctttttgtgt gatgagnctc gaaatataac 60
gagacgctcg aaatagaatg ttgaagctct tagccaattc aaacgtcaat aagtatttac 120
tcggatatct gattgtgtcc cgtcatatat cgagacactc gaaattgaat gttgaagctc 180
tgagccaatt cagatgacaa taacttttta ctcggtatgtc tgattgagaa ccgtaatata 240
tcgagacgct cgaaattgaa tggtgaacct ctgagccaat tcaatcgaca ataactattc 300
actcggatgt ctgattgaga cccgtaatat atcgagacct tcgaaattga atgttgaagc 360
tctgagccaa ttcaaacgac cataaatgta tactcggatg tctgattgag tcccagtata 420
tatcgagacy ctcgatatag aatgttgaat c 451

<210> 29404
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29404

tattctttcn cctgtcagag aattgtntct tagactacca atatcattcc aaaccttccc 60
tattcccaca atgatgacct ctttcccatg taactgaatt ccccttatga tttctcactc 120
ctctaactaa cttgattccc cccactcaca aagcactgca acactaattc tgaactgact 180
ctgttgcctt cttggggcct acatgtgtaa accttcagag ggttcccaga attgagcaaa 240
ttcctatcat tattatcgat gcacatactt atttgatcca gctactaacc caatcactta 300

tagatctggt ttctggtcag 320

<210> 29405
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29405

ggaatataat caacaagaag gtgtcattct tcacaaacaa gaagttggct ttttttaatt 60
tttttttcat aagcacttaa ttaccagaaa agaaaataag aaggaaaaat gaaataagtt 120
ttttttaaaag ttaaaattaa cttatgctat nggtttgcac atttcaaggc tcaaaaccga 180
acggtagaag gaacattgggt atatcattga agatcaaact cattnttatg gatggaaagg 240
tgattcttaa cttcaaccaa ccaaccaagc actaaaatta tttcataaaa taaaaaagtg 300
ttaaaacagt gcaaaaacac ctaagctttn ggggacgtgg attcggagtg actgtataaa 360
atcctagcca tanaaagcan atcatgtaca t 391

<210> 29406
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29406

actaagcttg atctttatgt gaagcagctt gaagattttc attttgtgtg ctagctgcat 60
aaatcanaag acaccattgt tttctatctt caactaaacc ctgtgctagt ccatttagat 120
aaaatataaa cataaaaaaa aaatccaggt tttcatgtct actctagtca tgatgatcag 180
gttttgggta atgaaacaca aataactctg aaattttttg agagaactaa ataagataaa 240
tcctaacaat aaggggaaaa aaataattaa gaaaatcaag agatgtacac attacagatg 300
tacaagagag caggatagtg agaccctag atcaaccaag ataaggatat ttagatttcc 360
aatgttntt attatagggt ttaggagact cagatctcca aatggttgtg ccctgatgt 420
tattcctatt gagtaccatg gtcaagttta caa 453

<210> 29407
<211> 431
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29407

agctttttatt tnntgtcttc gccagtgaaa ggatcgatgt gggctctgaaa aaagggcaaa 60
tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggataat 120
ggagaaaccc atgttgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180
tatctttact cagccaataa caaaccttct ccttaccac caccangta tccacaaagg 240
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
agcacanacc ataaacacca accaagaagt tgaatttgca gcgagaaagc ctgtagaatt 360
caccccaatt ccagtgtcct aagctgactt gctcccatat ctacttgata attcaatggg 420
agccataacc c 431

<210> 29408

<211> 445

<212> DNA

<213> Glycine max

<400> 29408

actaagcttc ttcttctttc atactatctc atacttcggg tttttatttc tttctatgct 60
atgcatctag cgccctctct gtgattggga atccccttgc ttcccttctt cctttgatag 120
gaaactctcc ttctctgtca ctttgattgg aaataccctt tctcttcttt tatgcttacg 180
aggctaacga ttgacattct cacactgagt cactgtttat ggtgagtcag gattttggct 240
caagacttga agaatggcta cgcattgtac atgtcacggg ttggcttgcg tcaaagacaa 300
aaacggatgc cccacattat ttccatgaca cagatgcaaa aatgatgata tagacatctt 360
atgcaaaaact ggccatgcat gcacctatgc ggacactcaa gtgtcacatt tttatgggtca 420
tgtgatgcta cggctcaaga ttcat 445

<210> 29409

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29409

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 ggtcccttat ttttttattt taaatttctt ttgctccttt atctgataaa agaataattta 120
 atcattaatc tctcaaattt gaatcattgg tgctatttgc aaacaatgat ttttttaaata 180
 cttgcgagac attaaatgca tganaagaga agaatatatt gtctaacata tcgttgataa 240
 ttattttctca acacaatttc aattganaag tcatccgaat aaaggaggat tagagacaat 300
 gatagaactt aatttatcat tccatacatt actcanaaca aatgagatat tntatttata 360
 gacataaatc tacaactcan naaaatcgcc caatgtattg gccaatanaa gtctttttgt 420
 atgggttttt tcttcg 436

<210> 29410
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29410

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 gacagcgagg cagagaagtc ggtgcagaaa gagaatgaga agaagaagat gttggccctg 120
 gctcccattg ctaaacctct tgctgggaag aagctntgca agcgaaccct anaacttggt 180
 cgtagagggt agctttatga tccattcgca ttctctcaat ttgtctgtgt ttttttttta 240
 tttgctgctt ggtgttagtt aagtatatat attgtgttgt ttcagctgcc gaacacaaat 300
 gcttgaaaag aggagtgaag gaggtcgta aaagtataag gagagggtcat aaagggtctg 360
 tctgttttct ttctaacttt ctctttctca caaaaacatt agaaatgctt accctaattn 420
 tccggtattg tgaatgcaga tngtgtgtga ttgctgnnga acatatcacc gatgatgtca 480
 tcactcat 488

<210> 29411
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29411

gaaaatgatt attaaacaca caaaatggaa gtactaagta tttattacct atacttaaca 60

gaaaatactt ataacactac aaaatagcca taatttggaa gagtttgata caatttacac 120
aaggttatac acaaaagtta gttgtattca ccgactaaca ccaactagtg gtgtagctgt 180
ctaggaacat gtctttgttg gaacaattgg acatcaagtt gttgtcgttn ttggtattgt 240
taatcttgga gttgcaagag ccttccatct tatangctnt gggggaaaat gatgatggtc 300
tntgctcata ggaccctta tctgaagcag tgctctctga attcaaaagg ttcacttctt 360
ttctattact ctcttac 377

<210> 29412
<211> 323
<212> DNA
<213> Glycine max

<400> 29412

acactagtgg agagaccatg cgaagtatgg gtcgaaatcg cacgcgaagt gacataaata 60
cgactagtca gggcgctgac cgtatataac agaaagacta ttgcaaaaa tagtggacca 120
tgtaggaaac atgttgaaat tctctatat tatataagaa aaacatagga gacaaactca 180
aaaatattgt gggtcagcaa gataaatctt atatagcgat gcatatgcta cattccctat 240
tcaactcctt tgcacagag ctacgacaaa agagccgaac acaataaaga gatacagggt 300
taaataacta aatggagagg aca 323

<210> 29413
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29413

agcttttgtt catatatagc tgcaattaac aagttttata ttataagtca tttaatgtat 60
tttaaagtgt gatacataaa tagttttgtc ctcatattga catccaaatc tttctatgca 120
gtgcattgaa gacattaaag actacttctg acggtaaaat tgatcaacct acacatctgt 180
gattgaagtg aagggttagtc atacaatcaa tggttattta tgactgttga tgttgtgtaa 240
catctgaatt gtaagattga attatttttc atattgaatg tagagtcacg ttcaaagcgg 300
aggccatgag tgtggctatt atgtcatgca ttggatgtag aacatagtga gtgngagtt 360
gaagaatgaa tggagcatgg tatatttact tttgtataaa aattacnttg agtaacactt 420

tta

423

<210> 29414
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29414

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aaggaatagt tcgggtctaa aacaaattga ggctctctta taaaagaagc ccctagataa 120
tagaccccaa aagaaccact gtaaattgtaa aatgccgtaa atcacaggtg aattttgtag 180
attaaatcta actntctcca attccttttc tctaattgtga attttgtctt cgttctgctt 240
aatgatattc atgaacttca atcttgatcg tctgtgatca taaaatcttc tagtcatact 300
accattcttg cttaattact ttatcgccag taataagtca gacaatctgt cagggaanaa 360
cagtgttatg cagtgttacc gacaatgaaa agaact 396

<210> 29415
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29415

tttgttttaa aatgagttgg ttgagagttc caatcttctt tgaagactaa aggagagggga 60
taatgcagct cccattctc agaagctaca agttttcgat tagctcttat gattggaata 120
ttgaactcat ttgcaccctc ggcaatctcc ccaatctaag aggaaaagat tattagtcac 180
ctcaccaagc atatcatagt aacaagaagc tcacaagtca acaaaattac ctgtttatcc 240
tcgaagaagt tggcatcaag cagtccaaag aaacatccta ggctggaaac ataacctttc 300
ttgtctgata attgacattg gtttttactt ccctgattga ttgcaaaaca aagatcagac 360
ataatgaaag caacanatta taaagaaatg ctcaaaagtc anaacaatta gtgcctgaag 420
attgaccaag ctctatacga attgcaataa gaaacttatt tc 462

<210> 29416
<211> 437

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29416

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ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc gaaatttggt 120
ccggccatac tcttccttgc gagccctctt ggtctcttgt tcaagggctc ttgcggtaat 180
tgcattctct tcccgtaacc cggcacactc cttccgaacg tgtgtagcgg ccaacttgaa 240
cttctccttg gcaagtntg cttttcctaa ctgcctnttg agagtttgga cttcttcgtc 300
ctcttcgggt gcttcaaaac tctcttcgct gacgactttt aacttggcga gccaatctaa 360
acctcgtata tgaactttca tccattcgtg gtaccaccca atgatgccat tacgaatgcc 420
tctaagctct tgatctt 437

<210> 29417
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29417

tgagaaagtc cttctgattn tgtttatata tttctgtctt tattatatga gatgaaatgc 60
aaagattgga cctcctgtta gttgttatca ataagttgct taaacacttg tgcttaagtg 120
agacagtagc catgagactg tggtttgagc tactttcctt gaatttgtct tatgattaac 180
ctcatctaatt tgtattgttc acattttggt ctctcttttg tctagctgca tattctgtga 240
aaacaaggga taggtacaca ttgcttcac tttctcatca tgcaatcaat gaattttgat 300
gcatacacc ctgtcgcaac ctacccttcg gcgggagggc gacgcgagac tcgcgggatg 360
cgggttccac gaaaggaata cgcgcgaggt cgccaccaac gtttatttga ggaanacgtc 420
ggannaaccg ganaagacgc gatctacana ctnttaagt 459

<210> 29418
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 29418

atttttcntg aggccttaga atactaaagg aagtgtgtca tctcttttct tcatttatta 60
cgaaagtgtg atggaatctt aagtacacca ataattcaaa aaaatgtaaa tttattttgc 120
gttgcgacct ctttagaaac attntcgtca tggagaaaga aagcaacatt gtagttatct 180
ctaaatctaa aagctccatc cgtcatcttt attcatttat tataaaaagtg tgatgagatg 240
ttatacacca ataaataaat aaaatagatg atgaaaaata aacatcctac atcacttcta 300
aaaaaatgca atttagcaac cgaaagtagt gaccaaataa tttcgactga agtagcgacc 360
acagagttaa cgttgcaact cacgatngaa tntgcgaccg aattaatcat gatgttaac 419

<210> 29419

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29419

tgtcggngaa gagagaagag aataagctat cgcggatgtt aacagcgaaa aagagagaat 60
gcttccgaaa gagggaaaaa aatgcttttt atttttataa atgaacggca aaattgacct 120
ttcattgaat tgctgggtgc accaacaata ttgctgggtg cacctagcat atcccatgtt 180
ataaagaaca aattaagata atgagtatca attgtgttat aatatatctt attcatcatt 240
aaatttattt gatttgtctt gcgtaacatt tctttatttc tttatttctt tcatcggtaa 300
cttaccttca cacgtggatt ttaagctcct agaatctcca ttgttaagct ccatataatt 360
gatctgggta ggacaacata gagtttaaca taatgacaat ggatgatagc taagtcttaa 420
ttgctctgag ttgtcattct atccgtgatt agataaatga tgagtgatgc ttaatatgaa 480
tct 483

<210> 29420

<211> 644

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29420

ccgccgcact cacaacagta cacgtantca cagcgtacac cccgcctanc acacntncnc 60

tccccccccc cgcgcgcggg gnattgatgc agtcgnatag caacccatgc aanactcaag 120
 canngccgac taacganaaa gcancaccac agccccccac ctctcctgtg ctttancacg 180
 agaagaaaaag agagccaatag cgaccgcacc gggcaagaga agcaaacactc gctccgctaa 240
 ccgccaaata cccaccatgc acagagaaac gagcgactga tgacacacac cataggactc 300
 tgtgcataac cactcagatg accgcagcga acaccatgaa caaaccccaa ccaaaacata 360
 atcacgaaaa ctcccagaat caccgcgaca cataaaacaa gcaggcccaa tcacagataa 420
 aaacggatag atagacgccc tcgacgagac gccaacagcg caacagggcc atgacaaaaa 480
 cccagaccac atatagagga cacaggtcac gtgcctgaca ggagaggaca tcccatgatc 540
 gaaagaccag atatcgatca gaccagatgg aagacatgac caaacggcat cgtaggaagc 600
 ctagccagaa aagacacgca actgggacgg aagacgtggc cacn 644

<210> 29421
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29421

ttcttttttt taaattacga gcgtctcgat atattacggg actcaatcaa aactccaaat 60
 tgaaagtatt tgtcatttta ctctttatag agctttcgtt ntcaatttcg agcgtctcca 120
 tatattaaag ggctcaattg gacatccgag tgaaaagtta ttgtcgtttg aattttctca 180
 gagcttctgt tttcgattac gagcgtctcc atttattacg ggactcaatc ggacatccga 240
 gtcaaaagtt atagtcgatt aaatttgcac agagcttttag ttttcaatta cgagcgtctc 300
 gatatattac gggatacaat cggacatccg agttaaatga tattgtcggt tgacttttct 360
 tagagcttcc gttttcaatt tgagcgtctc gatatattac aaggctcgat cagaca 416

<210> 29422
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29422

ntgagcacat tcaaacaaca ataacttttg aatcgaaggt cngattgtgt ctcataggat 60

atcgagacgc tcgtaattga aaacagaagt tcttagaaaa atcaaatgac aataagtttt 120
aactcggatg tcctattgag ccctgtaata tatcgagacg cacgaaattg aaaacggaag 180
ctctaagaaa agtcaaacga caataacttt taactcggat gtccgattga gtgccgtaat 240
atatcgagac gctcgttaatt gaaaactgat gctctgagca aattcaaattg acaataactt 300
ttaactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tgaaaacaga 360
agctctgagc aaattcaaatt gacaataaca tttcactcgg atgtccaatt gtgtcccaga 420
ggatatcga 429

<210> 29423
<211> 514
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29423

cgccagttgt tgttgatcgt tgancncncg gcaatacagc gcggccgccc ggatactgta 60
gagncgacct gcaagcattc aatcnatgag gcaacaacgc gcacaccac caagagcagg 120
gatgccgagg gcagccgcat ctcttccac acacgaacga gagaggagca cacacatgac 180
acggcccgaa gttagtctag cctcttattg tgaagcaagc tctcttttc tacttggtg 240
ctgataaagc atgatttgct atccaggctc cactctttaa cataactaac aagaatgatg 300
gcgaaactgt cacggaagtg gccctgtctc atatagcaag gatgcattat cgtgtaacca 360
gatgagccaa gtatatgatt ctgcatatgc gccggattac ttaaaaaaga tcttttgctg 420
aagagaacac tacgtaacgt aagaattttg gttgcaatca ttctgagatt cattcaagcg 480
gacatctgac tacttnctaa ctgcacccta accg 514

<210> 29424
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29424

atcttatcca ttntagcttt caagatgcta gggtgacctt gtgcgatggt tttgatgaag 60
gtcccattaa tggaacttaa tggctagccc tatttcgcta gatgttagga atatcattaa 120

tagtatatatt ttgaatgagg atacgggttaa tggtgtgata tgggatgccc cccaaatggc 180
gtttactcca ctaaatccac ataccagtgg ctactcaaaa ccaccttcgc caatggaaac 240
ccaacttcgc aagactccta gatatgggtct ctgcatctct ctgaacatat canacacttt 300
ntatgggtca cggatcacia aaagtctccc cactaaaagn ttttgtcttt acagacatta 360
tttctagctg cttgtgtagt aagtgggtcta tctcatgaag aaactattct tcatctcttg 420
aa 422

<210> 29425
<211> 468
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29425

tacccttatg gctggcctcc ggacttcact cttgtgcct ctccggaaga tgtgagccaa 60
gcccctacct tcaaggggca acttcctcct tatgccgatt acccctgca agaagacgac 120
gacggagaca cccatctggg ccctctgctt ccctcaagg atccagctcc ccatgaacta 180
ccccaaccaa acatagtcgg ccattgtccca tcttcacccg caccgtaaa agaatcagtt 240
ccattcacag aagataaggg aaagattgat gcgcttgaag agaggctaag agcagtagag 300
ggcctcggtta attaccggtt ctgagattta gtggacctat gtctcgtgcc tgacatcgtc 360
atccctccca agttcanagt accggattnt gataagtaca aagggacgac atgtccaaaa 420
gggcatcttc ggatgtattg ccgaaatatg gnggcgtatt ctgtggac 468

<210> 29426
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29426

agcntttatt ttnttgaat caaataaaac accaagatag tctcatattg taaaattgcc 60
aaatcgtgtc tcaatagaat taattgattg atctaatatg tataaaaaat actcgatagc 120
aaaagattct tcaggtgaat gtgtgatctc attactaata ttttcatcaa aatgagaatt 180
tctattaatt ttacgttttt cagcaaattt tggctttata tccatttcga tagccatttt 240

ttctgtggat tttaaagtca atgcaaacc attttcccta taatgtttta aataagtgat 300
aagacctttt aaatgatcta tggcaacatc tatatgcata ncctttgatt gtagaatttt 360
gctaatagaa ttgacagcaa acaaaatatc ataccanata ttcattccta ataacaattc 420
acaatcttca agttca 436

<210> 29427
<211> 493
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29427

ngtgacgata tttaaaanat gacaccaa ataaataaag ggtaatatta tattgcgaca 60
ttttatcaaa tattgtctat atcacatgtc ctgctaaagc atttagtgat atgaactata 120
tacaatattt gataaaatat atattacaaa aacatattaa taacaattat tcatatttga 180
tgatattttt taaatgttgt caaaaactat tcacaatatt ttactaaaa tgtgacgggtg 240
tatataaatg ggtagtaa atgaatcctt ggctattccc tagtattagt acaactattc 300
atgtatattc acaaatgtac gtagatattt attaaaatat ttttttctaa gaagtaaaac 360
ataaaataaa aattgaaata tatatgtata caaacataa attagaatta ctctatatat 420
gataaagaac gtntaaataa tgtcacatta cacgtaccta catgtatgag tacctcatta 480
tatatccatc att 493

<210> 29428
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29428

agctttctact atgtggcang gcgggcttcc ttcactttct tgtctccaac gcgagctttg 60
accactgttc ttcttcccg cgatgcttct tttcatgtcc gcctgagtag gcttatagcc 120
taaaccatac ttcccacgat ntcttgggt atntatcagg ctagttatgc cgccgttgtc 180
tttgctaaa cccatcccg gttcataacc gttccccaac ataactcggg ccatcattac 240
cgctgcatcg gacagacaag gctgcccaca gagggagtcc acggaggata tgctgaccac 300

ctcanaagac tggaaagtag tttctaacga ttcttctgcg gcttccacat aagccatgga 360
 ggatggggcag cttaccaaga tatcttcctc gcttgacacg atgaccaagt gcccctccac 420
 tacgaatttc a 431

<210> 29429
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29429

tatgcgcata cttcttcacg aacgttcact tacacaagat tntttttatt actaagacna 60
 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120
 gagtatttgt tacctacatc acacacattt cctttgctaa attcacatac atgcatactc 180
 taagcacttc ggctatcaaa aattcacata catgcatact ctaaagccgc atgcaaattc 240
 aagtatattt tcttttgctc actaaaattg tattcaaatt aaaagggtatt tttgtaattgt 300
 attttcttta cataacatgc aacatattta tagatctttg tgagacattn tgactacca 360
 aaattatatg tacatacatc caagtattct gctaccattc ccaaagtgtg catttccaaa 420
 ggtattttgc tacctattct aacctacaca tgtatgatga agcagaattc taaccatct 479

<210> 29430
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29430

agctattgtt acgatttact gngacagtca aagtgtcatt cacttaacaa atcaccaa 60
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtg agaagggttc acagaagaaa acctggctga tatgtttaca 180
 aaatccctct ctagtgtcaa gttcaagcac tgcttgact tgatcaattt tgaagatgcc 240
 taaagcagat ngatagaagt gcagccttga atcacaatgt agacacttgc ttgattggag 300
 tcaagggtga gatttgttgt gtgtgactca naatcacaat tggcacaagt gagaaggctt 360
 tanagtggtg ctgtcataac tgttntcagt tattataacn tgaattagtt tggcaccaaa 420

gtat

424

<210> 29431
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29431

tgaagtgaga cagtgtggaa tagtcagtct tcctactttt tntgttgacc acagagtcag 60
tcttcttaca cccggagata tgtcgcggcg gtcaggagac cttgaggaca tcaggtggag 120
tgctattgcc cagaaccaag cttgaccaat cccgacccaa cccgggcata gtcagtcagt 180
gagaacctgt gacgtacctt aacaggcgag ctcttggcag tcaaccaata aaagaacaaa 240
aaccacaaaag cacggaggct tgtgtgggtg ctggccagct atggaacttg agtgatattt 300
ggaatatggc ctctggtaat cgattacaaa ggggtgtgtaa tcgactacaa ggcttacaaa 360
tggggtcagg aagttgagat ggcctctggt aatcgattac caacgggtgt aatcgattac 420
caggcttaga tatagagaca atatgttgag gaggcctctg gtaatcgatt accaatattg 480
tgtaatc 487

<210> 29432
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29432

ttcacgagag cttccgttgt tcaatttcga gtgtcactat atgtgatgcg cctaaattgg 60
acattcgagt taaatgttat gaccatttga gattctcaag aacttccgtt gttcaattct 120
gagcgtctcg ttatgtgatt tgccctgaatc ggacatccgt gtgaaaagtt atgaccattt 180
gaattttctca agagcttccg ttgttcaatt tcgagcctat cgacatatta tgcgcctgaa 240
tcagacatcc gtgtganaag ttataacatc ttgaatttca tgagaagctt cgttgttcaa 300
tttcgagcat ctctacatat tatgcgcccc aatctgaca 339

<210> 29433
<211> 434
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29433

tgggaggatn gatggngacc cgggtgttgag agaaacgatt tatgggctac gtggaagtac 60
gtgagctcag ttggaggtgg gcaacagggg atggtgggtt tatgcgcgca ttgtggatgt 120
ggaaaacttg ttgtgcacca tcgcccgacc gccacctagt accacatgtg atgggtaccc 180
cataatccta caagcttgag atgaggaagt gttgaagggt gaaacttcct gcttttattg 240
ttgaccacag agtgggtacct ggagatatgt tgcgggggtc aggagacctt gnggacgtca 300
ggtgggggtgc tattgcccac aaccaagctt gaccaatccc gaccaacccc gggcatagtc 360
ggtcagtgag aacctgtgat gtacctaaac aggcgagctc ctggcagtcac acagataaaa 420
ggaacaaaga ccac 434

<210> 29434

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29434

agcttttaat gtgatttata aaataagtgt tcaagattga atgaatgaat taattgaaaa 60
gcaaatcaaa gccttgcttt tatagactct tcatgtctgg ccaagaggac catttagaag 120
agttacaact tttagaataa cttanaacca atttgaaaaa gtcaaaacct ttttgaagag 180
ttacatcttt cgattttattc agaaacaatc actggtaatc gattaccaaa tcagtgtaat 240
cgattacaca aggccttttat gtgaaaggat gtgactcttc acatttgaat ttgaatttca 300
acattcaaag ggactggtaa tcgattacca aacattgta attgattaca gctttttgaa 360
attaattgga acgttgtaaa ttcaatttga aaactttntc anaacaattt tgctactggg 420
aatcgattac aacaatctg 439

<210> 29435

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29435

atcaacatgc aactntgaaa atgtataata aagtcttttc ctggcttcca tagggttcca 60
aaactcaata aacttcatat aaagccaaca ttngagactc anagttgana accaatcggt 120
tcaaacaata aaactcatta caattcanag aataagcttc ctttaacgat tcaaacacaa 180
aagatgactn tgcaaagaag gaaaggaaag aagggtgagc tttaggtcca agagaggagc 240
tttctccac tctacaaca accacactac tgatgcatca accaaacccc anagtcaacc 300
aaaaatagaa ttaaccccc cccccccaa atcaagggtt tccatgaact tccatgggtg 360
ctaaagagaa aatgaanat ggaattcaag agagggaaaa aaaagtactt acta 414

<210> 29436
<211> 321
<212> DNA
<213> Glycine max

<400> 29436
caccttctcg ctaagccaat ctgccttggt gtgggcagcc caccgtctaa tgaaatacat 60
gctgagccat actacctgct tgggtgtcaa gatggatccg gttaagtata tcttcgagaa 120
gctttccctc acgggacgga tcgctcgatg ccaagtgttg ttatccgaat ctcactaatg 180
tgcgctaagc agttcataag tgcgctaagt gcacgagcac gaacaaggcc acctatttaa 240
gcctgaaatc agattttaga gagggagttt ggactggaat tcagagcttt gcatgtctag 300
agtttctagg gagagaaaagg t 321

<210> 29437
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29437

ggtcacatgt agatcttatt gtggacccca acatattagt ataaatgtta gcatgcttat 60
ctctaaagaa aacagaggaa gctttgatga tgcctaagaa gatcttttct ccaagggtgt 120
agctgtagat atggaatggc caacacaaaa aatagaaac aaactttcat ctacctaagc 180
ttttcacatg cacaacaatg tctcaaggaa tcagtgaatc taatcctcat ctacagtgtc 240
aaccattttt taacaactct gattggactg tgatactaag tcgtgaaagt aaactcagtt 300

aaacttttcta aggtacccaa accatgtaat tgttttacca tatntttaga taaactcagc 360
agaattcctc aacaaatggg tttagccttc catcacatgg aagcaccttt aacaatcaag 420
aagtgggctt ttagagatca caccagaata cat 453

<210> 29438
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29438

agtcttttaa taaaaaatnt cctgataacc tttcaatgac aatgtcaaca tctgctttgc 60
tctggggacc atgtatgagg acccttgtaa ggttcaaaat gtcaccatag tcaccatac 120
taagtgccat ttcattagaa gtttgagaag gcaagtcctc ttcagtcact gcacctatat 180
gaggaccgaa taatggctgt gagactntgg atccagcatc aagtctgata caaattatag 240
ccattgcata cgcaactcca ccaaaacctg tgtgtgatac aaaaaggtaa ctacctgcag 300
agctacaata aagcaagagt ttagaagtta gtacattgct atattcaaac aaagaataag 360
attaacatgg agggattaca gtttctagac aataaggata cagactcaga acaaatgaag 420
aacatt 426

<210> 29439
<211> 434
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29439

cgagtaatag aaataagatt ctatcataac tagagatttt gtgttaatta attntttttt 60
tactaattag tgtcttttaga atattgatta aaaaattaaa aaaatattta ttatataaat 120
aataagacag cataaaaaaa ttataaagaa gataaatcca ataaaatatt tttactttta 180
tttttttaat caatatcttt agaatactta ttaatatatt cttgaacaa attcctaaac 240
actaaaacta tttatattta ggcataattt taacatctct ggaacaaaac aagacaccaa 300
aaacttaaag tgatggaaca gaaggaatct ccaacagcaa ctaattaatc ccgcacttgg 360
ggaagcgaac aagaaaactn tatcctccca ctttctcttt gagtaccatc accacttgca 420

ttgctaggaa gagt

434

<210> 29440
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29440

gttttgaatt cttctatgcc ccttagggtc ctccttgctt tgatgtcttc atcttcattc 60
ttctacaatc ggtgatcttt ttctttgttt aaagcaagtt tcgaccgatt aattgtgtcg 120
taatctcact taatcaccat ttaaataaat ttcaaccaat cgtttgtgtt gtaatctcgt 180
ttaatcacgc ttaaaataaa attcaaccaa tcgtttgtac tgtaatatca gttaatcata 240
naaaaaaaag tttcaactgg tcatttactt tgtaagtcct cctttaatga gttggaaaat 300
aaccaaggaa aaccaaagct aanatcaact cataatcaag cttttgtcca caagaaaatc 360
gcttgaaccc gtccaaaggt ccaacgcctt aaacagtctt nttaacttt atcg 414

<210> 29441
<211> 325
<212> DNA
<213> Glycine max

<400> 29441

tgccacccaa ctgcaccaag cgagctacag agcttactca taggcaaccg acatctggag 60
gaacatactg gaaggcccaa gagggcctgt taagcgatct gcaccctcat aattactata 120
tacacccctg cgtataacag gtgatgcttt tgccctaacg atacggatac ttacgagttt 180
ctcaacgata cttgttacct tatcgcatgg tcagagaccc ttacgcgtac ttacatcata 240
cctaacatgc cttccggaac gtgacgaaac tagacgaatc gcgaactatg ctttctgcag 300
gctgccaaca tgtgtccaaa atcta 325

<210> 29442
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29442

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 ttccttgcca gccctcttgg tttcttggtc aacggctttt gcggtaattg cattaccttc 120
 atcgaactca acacactctt tccggacgtt tgtagcgacc aacttgaatt tttctttggc 180
 aagtctcgct tttcctatct cggttatcaa agctcagact tcttcacctc cttctggagc 240
 ttccaagcta tcttcgttga taatctttaa cttggcgagc caatctaaac ctctgtgtacg 300
 aactttcagc cattcatgat aaccaccaat gatgccatta caaatgcnc ctaagttcttt 360
 atct 364

<210> 29443
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 29443

tgagagactg atatgtagtg ttcaaagtgg cacaatgacg ctgcttgacc attacacctg 60
 tatttgaagt ccacacttca gagttgatga tatagccac gccgcccttg accgaattga 120
 gactctctac tacttactaa tcgcttggac atgatggatg aacacacttg tataggtgcg 180
 gactctaaga cactcatgga tgtgaacctt tgacctgatt cttcttcaca tggagagcct 240
 gtatgctcac tgag 254

<210> 29444
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29444

ttttttgata tggagatcaa attgaccttg aagctatgta tatatacaac atcctctaag 60
 tatagaaact gagaaaattg cactgtgcct acatgagttg caatgactgt gtggccaatg 120
 ggaagcttaa aattatggga tttatcttct tacaagaaga aaataagtaa ggaaaagtta 180
 tgacatgatc agtggcttct gaattgagta tccattcatc tggacctgtc ttgcttacac 240
 tacaagtaat ggataagaca ttacctctgt gtgcattgct ggaaccaatg attgtactaa 300
 tttgattcac atgntgaatt gtgtgactcg agctctattg ctacagcang gccattagag 360
 ccttatattg ttgagaagtc aactntatta tagtactttg ctcactctga ttgttggtta 420

<210> 29447
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29447

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 aagtcttcat ttaaaagtgc aaaatcctta aacatatgtg ttcattcttc aacttcattc 120
 atgtgacaac acgaattaag ttattctgtc tggagaacca aaagatgttt tctgcttggt 180
 ttttgtttct ttcattgcat aaattcgagg attagcagac ttgtatatatt gttttgttga 240
 ctttgtaatg actcttgaag ctttcttatg gtaagctggc ttttgtagga ataagtttct 300
 tgtgatgaaa agagaatttc ccctcttgat tgacagggaa caatatgtac tagcaatggg 360
 tttcggtgaa gtgaattaac acaaacatat acatgcaacc gtgtttcgag tttcaaccaa 420
 tntagtgaaa ctaaagttag aactaanagt cac 453

<210> 29448
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29448

ttcnttgatg attnggnctt tgccagtgaaggatcaatg tgggtctgaa naaaggaaaa 60
 ttttagtcac cttcttggtat gaatgagaaa actggggcaa atgaagaatg tgagaaagag 120
 ggagaaaccc atgctgtgac tgctattcct atacggccaa gtttcccacc aaccananaa 180
 tgtcattact cagccaataa caaacctcct taccaccac ccagttatcc acaaaggcca 240
 tccctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac cacctttagc 300
 acanaccana aaaaaaacac caacaaaaag gaattttgca gcaaatagcc tgtanggttc 360
 accccaaatt ccgttgatc atgctaaact tgatcccata tctactagat aattcaat 418

<210> 29449
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29449

taagcccaat aatcagacaa acttggcaca agatgaagga tcagaatttg aggttgtaat 60
gctcatggca accacaagca atgaatcctc caatgacact tcatggtact tggattctgg 120
ctattccact catatgacaa ggagaaagga atgggttcatt agtttgatg actcatcaaa 180
gagcanagtt tgttttgcag atgatagcag tctcactgca gaaggcattg gcagagtggc 240
tcttagagac acaaattgaa aagacaçagt cattgaggag gttctatatg tgcctggcct 300
gaagacaaac ctgctgagtc tagggaacct actgcacaag ggaattgtca tgacaatgg 359

<210> 29450

<211> 350

<212> DNA

<213> Glycine max

<400> 29450

agcttgatcat ttttctcccc aggcgagccg atgtgcttcc tccataatca tcccccttct 60
gaaggaagaa tctggaatga ccaagagggg ctggatgcta tttgcacgcc catttgact 120
agatacacac gatgccttca ttggtgattc tgtttgacta aacatacaaa gctttactaa 180
tattgttaca atgcttggtc ttacatctat atgtgacgat gccttacaga ctacgtaatc 240
tacccttga tggatagatg gatgttcaaa acattacgga tcgcgctatt acacttactc 300
ttcattatcg gcatgtcacg caacttctcg gattgtgcta ctatgcttta 350

<210> 29451

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29451

agcttgtttt ttatttgtcc tccatgtata ttcttcttgc cataactgaa atccaaacaa 60
ataagcattt aggtcaaatt gagaaagatg gatctgccat tttgaccaga aaaagaaaga 120
atacnatgta caagaaaact gggatgttat ggatcatgac ataacgtttt ccataaattg 180
agtgagagtg agagagataa tgacaaagat aaaactgata ttattgctta gaaagaaaaa 240
aaccataga gttagataga acagaggtat ctaaagagtt ttgacttgag aaactaacca 300
caactaactc taactacctc taactaactt ctaacagaat gtaaactaac tctaactacc 360

tctaactaac ttctaacaaa atgtaactac ttgagcgcaa tctagtgaaa actatcagcc 420
 cttacaacat atacactg 438

<210> 29452
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29452

gcgacctatg atactcagct gactgtgtca tntgtgggtc ttggtattgc tgtttacatt 60
 tccacctctg ttggttgctc cacgtattgc tccacgtgctc ttctttttca gccttcaccc 120
 cgagccttct tgctttccat tntatctttc catttctctc tctctcatgc tttctagagc 180
 tgggtgcttta ggaggagtag tgattcgatg gttgaagtta ttaatccatt atttatTTTT 240
 tcaatcgtga gagaagagaa aaggacaatg aagaagaaga atgcaaaagc aatccccatct 300
 gtgtgtttgc atattagaag ggagggctat caaactaagg ttcttttggt ttcttctctt 360
 tattatgcac tctctctctc tctctctctc tctctcgctc acgct 405

<210> 29453
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 29453

agctttacat tgcggttgcc tgaggaagag aaattgggtg aagtgccaaag acttcccatc 60
 gaatctccgg tgtgagtccc gaagataaag caacttaaca ggaatggagg gggaagccct 120
 atcacacgat tagctaacct ctcaaattct gttaagtaat cgtaataaga tccacgctat 180
 gaaagttcga agagagctca ttctggatca tcatagaatg acggcgcgaa catggactct 240
 atagcttgca gaaagccgga ccaagacgtg atgaatccat tgtggaacat ccactggtac 300
 caactcaaag cggcatcgtc gagatagaac gaagctacag taatcctttc ttcttccggt 360
 gtgtttgggt aatcaaatag atgtgttatt ttgaatatcc atcctagtgg atcctggcta 420
 tcg 423

<210> 29454

<211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29454

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ttgtcctgcc aacaaccacc attgttntgc aaacactcag ttgntttcat gtctgcaaag 60
aatataatca atggtacctg atatcaattc ttttatccaa aatagcaaag gacaacacac 120
attacacatt gccaaagtga gatataagat tggttgagta gtaaagaagg agaggaaggt 180
cgtgggttcg atccctcctg gtgacaaaaa ctaacaaact gacaattaaa atttgccgat 240
cataaaaaaa ttacacattt ccagggtgaaa gatgagttgc ttgtaaaagg cacataagta 300
actaaggagg tagacaagat tttcctagga tgtttgagag gtanggagag aaaacaagaa 360
atgagcaaag aacctggagt taaacatatt gatggctcag tggctctctg gatacctgaa 420
cagattgcct tgagtactgc tgctcttgac agcttaccta anagcgggta ataataatat 480
acaattatac 490
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<210> 29455
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29455

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agcttatggg tattgtaagg agaataaaac aatccanaat caattgtacc tttcaagtaa 60
cgaagaattc tttttgcggc ttttagatgt ggagaggtag gagccttcgt aaagagacac 120
acaactccca ccgcatatag aatatcgggc cttgtattgg ctagatacct taaactcccc 180
acaagactct tgaagatcgt ggagtctacc ttctgtcctt catcaaactt tgataacttc 240
aagccacctt ccatagggtg gttcacagga ttgcaatcaa gcatattaaa tttcttcaac 300
acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360
attcccaagt aatatgacat aagtcaccata tttgtcatat canattcacg agacatggac 420
tccttgaagt cttcaaac 438
```

<210> 29456
 <211> 465
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29456

ggtatagggt tcatatatgt ctcacccatag atcttactcg tcttggagta gactctgggtg 60
atgatagttc ttgatcttgt tgttgtggtg gaggtgaagg tggttcacct gggctcttctt 120
cctcagctat ttcttgaggt agttgagcgg gtataagaac attcttttcc acttttttctt 180
caccocaaatt ccaagaagcg tactcatcaa cttcaacatc tcaactgatg acgagtttct 240
tagtttgcaa gttgtagaca cggtagccct tagagatatt gctataccca aggaagatac 300
ctcgtatagt cttgtcttca agtttgtgcc tcttcacgtc tggaatataa atgtagcata 360
tagatccaaa gacccttang tgctntgctg atggcttctt nccgttccaa gattcaattg 420
gagtcttgtc ttttacagac ttnagtggac atctgttgag tgtgt 465

<210> 29457

<211> 428

<212> DNA

<213> Glycine max

<400> 29457

ttctttttat gcctttcagc aatggtaatt ggtgcctcat tttgatatcc attgtgctta 60
tgatgttttg catttaagtt catcgtgttc tgattgcttt ccaatgttta ttttcacgta 120
aaatttcaag gttgcagtga gttttactgt tgtttcagag tcttttatga gtcagggcat 180
tgtttatttg acttcttttt ctcttggcag gtttggttta tggccgaatt ttcacatatt 240
cttgtagatt gtgatgaggt atgttataaa attaaagatg ctccccattg aaatcattgt 300
agccttttat tgaagcttcc ttacatatgc aattgtaaat gggtcccca ctttgaatca 360
ttattgttgg actaggcata tctctgataa tactgaggtg aaaatataat gaaataatct 420
ttagatg 428

<210> 29458

<211> 487

<212> DNA

<213> Glycine max

<400> 29458

tggggataaa tccaccttat caccacaagc caagattatt tgatcaatgt ttttttatat 60

aattaaaatt tatgataaat aacttatatt gtaatataag attaatttta acaatggata 120
 ctttttttaa aaaatattga aattaaactt taaaaaaaat ggaaaggata ggttaaaaga 180
 gataagacaa atccataaaa aaaatattag ttgaagattt tttaaaataa aaatactttc 240
 gttaaaaaaa tacttccgat aaaaatatta gtotaattat tatectattt tttccttata 300
 taaaacaaga actaatttta aaagattttc tggggataaa atcagaaact ttttttttct 360
 tatacaaagc taaaatttga atttaaccta attcttgaat agttataaaa atcatccaaa 420
 tccagactaa aaaagagaac ccacgctcta ttatgttgtg tcgtgtcaca aggacaagac 480
 atgaaac 487

<210> 29459
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29459

agctttaagt tgcaatagtg ctaagggttc tggttttagt tactccatat tgttgacaat 60
 taacttgggt ttctaccttt gtgatcattt agtttaatgt gctaagttgt ttcaagtttg 120
 gtctttggca agtgtgtaca aagtttagtac ctatcacttt ctatatattt tgttgttcag 180
 acctcactat gaagactaaa agtttcaagt ctttaatatg ttagttttta aatatttttg 240
 gaggtagatg ttgaaggtag ttacgtctgg ccttgtggga gagctcattt tcttgaaggc 300
 tatgtcagtt tttagtaaaa ggctatgtca gttnttaaca gtgttacttt attgctatga 360
 aaaatgttgt ctttgagagt ggtgatgtc acacaatact tagaaacaaa gtatcaataa 420
 atcgtgtatg gaac 434

<210> 29460
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29460

taccncact actaccaca accaccacc aaacctatct ttgtttagaa aatgacatcg 60
 gcagaaatgc agttgagaag agaaaggggc ctatgcttta cttgtgatga caagttttcc 120

cctagccatc gttgtcctaa taagcaatat tttgttccac agtgggaaga agaggatgaa 180
 cctgcattac aaccagatcc accagacgag gttgagacag ctggtgaccc cagtttgcaa 240
 gatcatcatt tgtcttataa tgctttaaaa ggctcatcan gtcttgngac aatgaagttt 300
 caaggatcaa taaatggatt gagagtgtag attctactag atagtgggag ttcagataac 360
 ttctccagc ctagactagc tcaatgcctg aagttacct 399

<210> 29461
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29461

ttctttanat ataactgttt gagaaaatgt ccaactaana agtgaaataa aggaagaaag 60
 agaaagataa gaggaaaaaa agaaaaaaga caggagaaga ttgaggaagt gaaagacaaa 120
 aatgaaggag tgtagcggcc tcgtaggaac atgactgata aagaagaaag gaggtggctc 180
 tatgatgcaa tcctactccg caagggcatt ggatagaaaa actccaagta gattgggcca 240
 gagatgcaag agaaggccct agggttctta tgagccttan ggtagatttc gggcccatgg 300
 gctaagtacg agcccgtta tctttgtaaa tattagatta aggtttcatn tattttgggc 360
 cttgtattta nggctccata atgtaggtag ggtaccctag aaatat 406

<210> 29462
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29462

tgtggcggct gaggatgagg acgttgttgc tttgatagtg cattttgctt tcaaggacac 60
 tactgttaaa aagaaaaatg aggtaactga tgcaatgagt cagagggggg aaaaaaata 120
 atggtcgaag agaaaaaaat aaaagaccaa gaaaaataaa tagaggtaga aaaagaaaaa 180
 gaaaaagaag aaaaagaaaa agttaaaaaa ataataaaga tgaagaaaag agtagaagtg 240
 caaaagaaag agaaaagagg aaagagaaag cttcagataa gggtacggaa gttccatatc 300
 ccgtggtacc gtccaagaaa gataaggact gccatctggc gagattccta gacattntta 360

ggaaactgga aataactgat tcctttggag aagctntaca gcagatgcc a ctctactcan 420
agttnttgaa aggttngttg acaaggaagc acaagtacat tcaccaggag aatatcatt 479

<210> 29463
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29463

ttctttatgt ttatgaatca agttgattca agaagtttag ataatgacaa agatgtagac 60
aaaaagccca aagaatgatg tcaagattaa atcaagaaca aattcaagaa tcaagagaag 120
tttgatttca agattcaaga aaagatgaat tcaagttcca agagaagaaa tcaagaagac 180
ttcacaaggg aagtattgaa aagatttttc aaaaaacaac atagcacnag tttgtttttc 240
aaaagagttt ttctcacaag tttctaagtt accagagttt ttactctctg gtaatcgatt 300
cccagtttcc tataatcaat taccagtgac aaagtttgat ntcaaaagtt ttcaactgaa 360
tttgcaacgt tccaattgat ttcanaatgg tgtaatcgat tacaagatat tggtaatcga 420
ttacca 426

<210> 29464
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29464

gctaacctta gttcatcget gttgatecca tgggtcttct ttatactttg ccacattata 60
tcaccttgac catttataag gccactagtc tcctatggca cctagacttc attcccttag 120
ttttaacaac tcattagatt ctcaactcac taatacattg gacagaaatg tgtataacct 180
tttttctttt gtaaactact ctataagggc tcacatcacc tctctattaa gcataatata 240
ttttacaagc taattacata atatatttaa attggactca tccattcata taacataaat 300
aaattccaat ctaagaagag gaaataaaga taaaatttat acacttagaa nataaggcat 360
ataataaata gaaatttata acaaaaactca attcatacaa gtcatctcat atacaagtac 420
atcaacaaaa tattgtcaaa ccaagatata atagttcaat tactaaacat caccatgtga 480

cat

483

<210> 29465
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29465

tctttcttgt tgatcatagc agattaagga caatgaactc taaagaggga agcgttaatta 60
tcaagtattg aaagtgattg gttcattcca agggaaacgc atacacaatt ttaaaaagat 120
tgagttgatg atatcttcgt actcataaac ttgggtgtacg tgattcttcc ttcaccatct 180
aaagtgtttt tttctttctt taacaatatt agcaccactt atcttgccac tattttttatc 240
tttcatgctc gaactaaact tctaaccat agactttcac tatgtacatg taaaaattgc 300
ctctaattaa tcttcttcaa atcactatat atgttactac cattcttcna agggcttatg 360
ttctctcacc anactctttg tcatcttcta tccacacaca cacaaaaata ctttgtcatc 420
tact 424

<210> 29466
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29466

ttgttacttt agtgtctaatt attaagtaaa tttttttttt tctganattg caatctttca 60
atctcacatg taacatgtga cttgagtgat taatattaac atttgtttta ggatcaaaac 120
catactaagt ggttaaaatg gctaagaatt ttgggattta tttaaatttt tcttaatttt 180
agggaaatcgt gtgatagtc ttttaatactt tcaacactaa aagttaaggt gatttaccg 240
ttgtctctac cttagtccac ttctatcaat gcatgaatta ctttaatttat tataataaca 300
ctcaatcatt atattatcac ccacattctg gattcataaa aaagaaatca tccacattnt 360
ggaggcaaaa taacacacat cagaatcagt ggtcagtggg taagttaaag agaaaacatt 420
tgtacttcga gggtagacta natttagcat ctgataataa cttcggactt tctagcatc 479

<210> 29467
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29467

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 gctcacgtaa ccacaagctg caataatgtg tgaacatgga tagcgaaacg cataatacct 120
 tccgcattga caatgacgac cattcaagtt tactgaccac ttttgtccgt cacgttgcgt 180
 tataagggtg aagctctcct ctacttcaaa ccttgtggag tggatatcat acacgcgaac 240
 gatgtgcgta caagcttggt cttgattttt cctcagttct ttaacaagct ttgaacaata 300
 tacttggcct tcatttaact gtctttggct tggcagccac gctcaacaaa gtacttccga 360
 cacctactgt acgttg 376

<210> 29468
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29468

tgtagagggt acaacaagaa agtggctcta gattattatt ttagtaatat agataaattg 60
 gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtttg 120
 gttttcatga gtgtccaaca gcattcatcat tgtattactt tgcttttaac agaggccaga 180
 cagctgcttc tgcaattaag ttgacatttg agaataaaat catgtaatgt aattcatgcc 240
 cctctattca tgtgaatact taaatacacg catgctttgt ttgcaaatca ccgggtagag 300
 gggtgattan gtagttgttc aaaggctctg gataatatta ttttggactg ttaaaattac 360
 taaaatttc tagaatattc ttacatataa tatgtatgaa aatggtagaa taccctagaa 420
 ctatagttag tatgaatata gtagaacaat ctaanactat aatatgtatg aatatg 476

<210> 29469
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 29469

tagcttatag ttacttttac aaatgattcc aacatcttga aagagagcat gaggatctca 60
 agaaaactaa tcaagctcat ttagatgatt atgttctgga aaccacttca gctggagatc 120
 tacaagacaa ctctgttatg tatgaggcca atacattatt ggacgaaaat gtatccagtg 180
 gacgaaagat tcttcttaag gattatcgag acttggacga caggggtgaaa tccttaactt 240
 caactcgtga agattctgaa gaagagtaca attaaatgct taaacaaaag ctctgatttc 300
 aaaatgacat aaatcttgct aataatgagc tcgataagtt gaaaaacacg acgcgaagtc 360
 ttaaataaac taccacccga gattgaaaac a 391

<210> 29470
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29470

tcaacaattg tttaatagag ataaaacaat ntgtacgtat tattattttc atgaatcgnc 60
 taatagagat aaaacaacaa ccaagccttt tcccactaga gagattgaat aacaaccctt 120
 gttataaacc agcaagggtc ctaagatatt gctactaact ttccagcaca ttaaccttga 180
 atgtattgag ctggaatatt taatttaatg gattaaaaag gtacttcata tcaccaccaa 240
 atcagtggct aagacaatcc atcatcaaat ttctcattaa aaaagaaatc ttgacattaa 300
 tgaaatggat aaactttcaa tcatatgagc tattcaataa agtatatgtg gttccaaggt 360
 gctaatatga ctgcgatttg ataattctac gtattggttg tgattataaa tacatgacaa 420
 gaaaacacat ttatagaggt gaagcccnan ctaaacagaa tataggataa cattcctctc 480
 acatacagaa tct 493

<210> 29471
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29471

agtggtctat ttataaatct tgtggtcac ttctcatgaa tcttatctct ctctcacaca 60
 cacattcttt atcaatttga tgagttttaa gatatatctt tttaaataac tntaacaaaa 120

ggatattgtg tatgggtgat tgattagata ttgggttttaa acaaaaaaaaa attgtgatac 180
 ggtccttgga agcgaaagtt tttcaaaatt gtttttattt tgatttattt tcaaaaccaa 240
 ttactcccc ccccccccc ctcttttttg tttgttagtt ccatcattaa ttggtatcaa 300
 agctacatct tgaaagttgc tcaagatcac agtttttcta aaatggactt taaacaaatt 360
 actttcaaag aggggtgcttc tcttaatcgg ccaccatt 398

<210> 29472
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29472

ntatcaaaca atagttnat ttattgagaa ggcttataat ttattttaa cacaattcaa 60
 cccacattct tatgaaattt gtctttacat ggattcttat tccttctata ttagtaccac 120
 ttctttgccc accatcaaaa aacatacaaa aaaatacttc ccttatctct ctttgatctc 180
 ttgatttgcg gccaacactt tctcttcttc gttctataaa tgcactttac tgtatctaaa 240
 tctcatcttt tttttctcta tttgtgatga gcttatatat cttaacttct ttattctttg 300
 cccaaggat ttgtaaaact cttcaaggat tntagatcat actttacctt taacatttct 360
 tgtcttattc ctagtgtnnt gatagcttgt ctaattntca acattattac acccatgcaa 420
 gagtttaaag cattntcttt tattcctaga cttgtcttga acanttttat tccacttcca 480
 atattc 486

<210> 29473
 <211> 214
 <212> DNA
 <213> Glycine max
 <400> 29473

cccaccgccc cgaggagcaa gcgacgcagc agcaactttt ttcctatggg acaaacacct 60
 aacgcaaaca ctaagagggc accgaagcga gactcaggaa accgaaagag agagacgatc 120
 cagcacggag aaaacatgaa tataactgcy aacactcaaa gcaccaaagg aagcgctcaa 180
 tagagaaaat ggagccaccc agagacaagc gaca 214

<210> 29474
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 29474

gacttgggtgt gtgagcctat atggatacta gacatctaca tacacagtag atgtgatggc 60
 acgctgagca acggtgacag gactcaaagt gtatggacaa ccaagtgaca tgatgactat 120
 attaccaatt ttgctagcag agagtgttga atcataggag tgctctctca tctggcattc 180
 ggcacatctt ctagacctat tctgtgtcat ctacaattaa aacaaactgt tatgacctga 240
 taagaaatag ttctactgta taccttataa ctactcaac tctatcatga ccctatatat 300
 aatatgcaga attaccagca cgcatacata taacaccct 339

<210> 29475
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 29475

agcttgtgtt ttgttttaat tagaagatat aacttgagaa ggatatcgga gtcacaaaa 60
 tcatcgggtca aacagatgaa gaaaggatat taagaatgga aaaccgaaca cactatttac 120
 ccattaataa tcgagagtag atatatctgg cttgcgtgct aataaaagct gcctcagctg 180
 cgaaacatgt gtattattgt gtgtatatatt tgagctacaa aaggttttaa catgacgtat 240
 aaagtaaatt cccgtacgga gtatagaatt ggattttcaa ttatttatta tagctagcag 300
 acaggcatgt aaacagcccg tagccatcaa taatgaatta ctataagaag aacgagactg 360
 aattcaaac aaacgacgct attatgagat aaggcatgat aatgaaatga aggctgctat 420
 acttaactg 429

<210> 29476
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 29476

tgagagagag acaccttttg gttgcaaaca atgtataata aataagtgtg acacctaaat 60

tccaagcatg caaaggttca acatagaaat aacaaaacta acataaataa ataaaggggg 120
ggaagagttg aatttcatga atggattaca attaccaatg gtgggggaaa gatcttcaac 180
agaacttgaa ataaagctga caagtatgct actttttacc accccggaat ctccaatcaa 240
caagatcttg aaagagagat catagccact gctctgacct gaggatgaac tcattctctc 300
ttcctctgat gaatgtctta cgtgtgtgtg tcaaaaagta cagtgaaga tacgtatgca 360
agggtgagag atatatagag gcttatgggtg ttgggctacg gaaggctaac ctgtaacgaa 420
gacaatgtgg caaccctttc attattgggtg gagagataat actgaagaga gagagata 478

<210> 29477
<211> 503
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29477

cgacgccgcg cgaacatact ccccgagaa gaaacttanc cccccccnc cnagcggggt 60
gtgatcgatg acaccaggca atcgacacgc cccggcgacc agagagcgac cgcagcangc 120
attattagat gaacaacacg accaacgagg acgagaaacg aagagacgac aagagcccaa 180
agtcaagagc accgaaagac acctagacga tgacaccaag agcaagacac aagcaggcaa 240
gaacaccgca agaacaagag aactgcgaaa ccagaacaga aacaacagcc agaccaaaaga 300
acaagagaac aagacaagaa caacacacaa gaccgacaac agagaagact aatcaagaaa 360
gaggaaaaac gccgcgaagc aacgagagca caggaagtgg ccaaaaacac accaaacagg 420
gacgccccgc gaccgaaacc aggaagagga ccnataccag gggcgaaaac ggaagaggcc 480
gaatgacacg agagaacacg ggg 503

<210> 29478
<211> 286
<212> DNA
<213> Glycine max
<400> 29478

tcgagctcgg acccgggatc cttaatcacc gcggctgcat cttgatttat tggaaggcat 60
aagacaaggc ttttttcagt tccgttgatg gtgagttata tcacagtcgg gttgagcctt 120
ccatcgtttg ggcagatcca acaccacctg gtgggtcatt cgtcacctca tgcacgactt 180

cctgccatct gcatagatct ttactcttct cctacaacct tgtgtgccgc tttgcgacgc 240
gtgacatcta tcgcacgagt accttttctt tggcttcagt ctggct 286

<210> 29479
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29479

cgcggnctt gatctgtcna tgcaccgcac taacaatcac agcttacaga cagacgactg 60
acagtgactg atagaattcg tgttggtatc tatctagctg aaagtccacg cacaactctc 120
tttagttggc ctacctcatc acccatctga tgggccgtac gtctgccact agaaccatcc 180
aattcatctt tgtctggcta tccacacacg ctgcagaca tacatcatca cgaggcggac 240
gtcactaca tccatcatag catactgaaa gagagcaata tattcatcat acacatccat 300
ctatccagag cgggtctagg acagcacacg cgggccacgg agagagaagt agctgacgca 360
tcacgaagaa gtgaaacact actctgacct ccacatgcac cgacctatgg gaggagacca 420
ccaacagtga tggcttctc cacggcggag acatactact acgctaccgg aaggatgggtg 480
acgtcctact cgatgccgtc ttacacn 507

<210> 29480
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29480

atcttggtca tagctntgtc agagcctact aatcattggt tagtaaaagt tgcaacagtt 60
actaatgagg ataagttact aagtgaactg attagtcgct accgccacct atgaacaggc 120
gtgaacacat atttcagacg ctnttttctt ttaatggta aaacttaaata acaatatctt 180
gggtgttatt ttgttcttct tcaatcgaa tttatgtttt agcttagaaa actgtataat 240
ttttaaatgc aaacttttat tatactaatt gcagagatag aattccaatt ctaattagta 300
ttttcattaa gagaattatc tgatgatatt tttattattg tcattagtat ttaagttatt 360
attgtattaa accactaggc aaatcctggt ccatttttgg atccaaatgc aatggganna 420

tattaacgca c

431

<210> 29481
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29481

ctcagcttgc ggattagcat tataagctta aaattggatt ttatgtgatt caaatttgggt 60
cagtgtggtg ggatatattg ttgcaccatc ttcgtcgggt agagattccg tacttcggat 120
gaggtggtga agcacagtac aatgatgaga ggaataattt tgtagtggtt tcatttataa 180
aaatagaact attttttctc cccttctttt agagagtttg cacaataagg agtattatta 240
attatgcggc aatgacggtc tccggccttt atcaattttt aagaaaaata attttagctt 300
ttaacaattg cttaagaaaa agtttttaaa atatttttaa aactttnttt tcacatatat 360
ggaacacata tataacaata aaaaattatg cccctcattt aatttacaca atttcttaga 420
ctntntttat ctntcaacan accacctcac tacaagtgac tctaaataaa ataggtttct 480
ctttatac 488

<210> 29482
<211> 413
<212> DNA
<213> Glycine max

<400> 29482

tttattcatt tttatgcgta gaaatcctga acaattctta gaattatatt ttagactttc 60
acctactaga cgcctccatt attccattac acactctagg tttcatgata ttatttttat 120
gagtgcatac tcttctacct aggagaggaa aggatggacc ttgttgatcc ctttaactcc 180
atcaattcaa tacttcatct tgatttcttg tgcggcatc tccaagggat tgaatatcat 240
gcaagtagtt tagaatatgc aaccatgtgg gagcttgggt agaatacatt agtgaattga 300
agataagcga gagagatgag tatagaagta tgaaattaca gtggatcgag taaatttcaa 360
gtcagaccta tacactcatt caccaatata gatgtcacca tccaagtcta ata 413

<210> 29483

<211> 305
 <212> DNA
 <213> Glycine max

<400> 29483

gtttctttga acacactacg aacatgctag aaatcaattg tagaattcta attatgtttg 60
 ggtgtccgat atcaattatt tagagcccca cacagttgca agatgaacaa attacaaacc 120
 taaattatat agaattgcac attgatgcta agcaccatt gctgtggggg taattattct 180
 tggaagacgc atacagcatg agagctattt gaactcctcg catcacgcat caaattgggtg 240
 ccaagcctta catattctaa tgctaaactt caaacaagaa gaaagaaagc cattctctga 300
 cctct 305

<210> 29484
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29484

catgtctttt tcatccctta gaaaattact agggagctaa cgcgacaacc acgtgcttag 60
 catgagagct tagaaaacat ttttatgcag aataggctta gcgcagcagg cacgcttagc 120
 ctaaattctac aattnttcaa acagagggag atttgagctt agcgtggcaa ggcgcgctta 180
 gctcaacctc acaaaaacat atcacaggtt tagcgagtag gctcgctaag cttatttcca 240
 caaataggaa aaatagagac gatattgcgc ttagcttagc agccaggctt agtgctgaac 300
 aataatttga aaaattctaa gtgtctgata tagtagtctc actcaacaca caaacgcgct 360
 tagcgagttc accattgatg ctacacagaag agatgaatgt tgcataccct aattctccgg 420
 gaca 424

<210> 29485
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29485

ctcaagcttg tcgcaagcta gcgctatcag agagtttctc gttatcgga accctctatg 60
 tcttaaaaat atggaattgg gctgagcgac ctgctcctaa gcctattctg cgaaaaatgt 120

ctttctggtc aaccgctaaa cgcggggtatc gcgcttactc atgagtaaaa tttcataagg 180
cacgctaagc gcagtcgtcg gctagcgccc accttaattt atttatttct gtttcacttt 240
aatacatctg ataatcgtgc ttatgatctt ttgtttgaga tggtttccat aaaaaagtac 300
tgcttcttgc ccagatacgt tgataataag attgatccag atgccggacc gttgtaacat 360
gcctggcgaa gaccttccaa agat 384

<210> 29486
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29486

atcacctgaa gcattaatcn ttttataatg gcgattncgg natcagctgc tcttattgaa 60
gaacgatatg cacttcttgc attgtaaatt tgctatatcg tgggtgcaact gttggcattg 120
tgttccttca acgttagcaa gatgtttttt ggtttcacca tcgactotgt catatcagca 180
ataattttct tttcatcctt actcaatcgc ccaacgtatg gatgtccaac taaagacttg 240
gccaatcat gattgtgaat cccacanate aacttcacca tccaaccttc tcttccatgc 300
actggtttcc cacgaagcct gagaggacac accacagttc tacttccagt gtcttttcta 360
acgagttctt attcctacac ttgtacgtac cactccgttc acaccaatt aagaacaatg 420
aacttcttct tctg 434

<210> 29487
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29487

tcatgagtgc gggcttgaga catgaagaga atgttattat gatacacggt gaagcccctc 60
caaaaatttc agactgggtg cggccatgcc ttcctgattg tcaattggga aactggcaag 120
tcgtggaatg acccgaagtt tccatggcgg gcacaatgta atgcttttagc ttcaacccta 180
ctactgggcc taggctttta ggttctctcc ttgttaaggc gttatgtcat tctctagtaa 240
agaatataat ataaagatct ttccttaate tgttcttgtg ccttcacca ttctcattca 300

<210> 29490
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29490

cgaacagccg gcacaacagg cgcagaaaga aaccctcccc ccccccccg cgctgtaac 60
 ccgtgacacc cagccnnacc gccccgggag cgaacagcga ccgcagcacg caagcagggt 120
 agcatcggca ccccaaaacg aggaggcacg ggaagacagg cggaacggcg cagcaacaac 180
 aacnagcaag ggggaaacaa cgcgcgacaa aaaaccaagc cagcccagaa gccaccccg 240
 gaaaaccacc accagggcgga gacgcaggca agggcggaga gcngggagag agcgacgaag 300
 agcaggacnc gangcgaacc aaagaaccgc aacgcaaggg caacacgggg aggaagcggg 360
 gacaaaagaa gaaagacgcy ggggcagggc ccgagcaggg agacgacgag aggcgggaag 420
 acgcgagaac aaaggcgagg gaacacaaca agaggcaaaa acgccggaga gcgc 474

<210> 29491
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29491

tatatgcact gtggcaccat ataagtgaac aaccatcctt tgggtgcttat gaatacataa 60
 caagacgcac cacacaatga gtatgtcaag tcaactctac taagtaatata cataacgtga 120
 ccaatcaggg tcaactccgtt tgcgagaatg ctcataccat atgagatcaa cgtacgctta 180
 aagaagcact cacatcgagt gtctttactc ccaaggccca gacttogaag aatccgttat 240
 ggtctcacct tgetgattcg ggtgtaaccc ctacaacaat tnttacaagc agacactgct 300
 catgaatgat acaataactca tgacctcaca ctctgtgattc aaacacgtat aacacattat 360
 gatacaattc aacactgggt cctaactatg aacttacact ttctctntaa cactgcgcat 420
 atacgacttn ttcaatatag aactgagac gagttattgg ataattcac 469

<210> 29492
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29492

agctttcttt tggttcttta tggaggctgg atctttgaac ttcaatgagg tcctttaatg 60
 gtgattttcc accaaggaga tgcagcggaa gacaaaggag aagatggtag aggcggcgcc 120
 atccactang gaataagcca tggaagaagg agcttcacca ccaagatgag ccttggataa 180
 gaagcttgaa gaggatgctt caatggagga aaagatagag ggagagaaag agagaggggg 240
 gagcacgaaa ttgaaggaag ataaaggag agaagttgaa ctttgagttg tgtctcacia 300
 gactctcatt catcaaagtt acaacaagtg ttacacatgc ttctatntat agactaggta 360
 gcttccttga gaagctttct tg 382

<210> 29493
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29493

tctacttatg tggcagggcg ggcttcttc actttcttgt cttaactgcg agctntgacc 60
 accactcttt ctttccgaga tgcttctctt tatatccgcc tgagtgggtt tatagcctaa 120
 accatacttc ccacgatttc ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180
 gcctaaaccc attccgggtt cgtaaccgtt ccccaacata actcggggcca tcattactgc 240
 tgcacggac aggcaagctt gccagagaa ggagtctacg gaggaatgc ttaccacctc 300
 anaagactgg aaagcggttt ctaatgactc ctctacggcc tccacataag gcatagagga 360
 tgggtagctc accaagatgt cttcttcgcc tgatacgatg accagatgcc cttccactac 420
 gaatttcaac ttttggtgga gtgtagaggg aacaactccc actgagtgga tccacgggcg 480
 ccccaacag 489

<210> 29494
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29494

agcttgtaat tcatgttcat accacatctt atcacctca ccttgcccgc aatatatacg 60
catcttnaag agtatatctt cttcattcat angaattgct ttatttacca acatccaagg 120
ttcatatacc tctttgcttt tttaattntg atatgaatat ccttcgatat gtcccctgaa 180
ttcctacaat cacaatcact aattgattta ccttctttgt cattctcttt cagtgcattgt 240
tgtgggtctag ccttcgatcc acttccttta gagcttgcta atttcgagca accaatattg 300
gctagacaaa ctagtttctc atgacaaata tcctatcgtg gaccatatnt cttgcataag 360
aaacanacca agtgtacata aaccttcata tntatggagg aaatatcact ccatgagctt 420
t 421

<210> 29495
<211> 493
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29495

ntgtggatnt ggtcttcacc gacaaaagga tcgaagcgtg ttctgaaaag aggcaaattt 60
gatcatccta ctttgatgag tgagaaagct ggggcaatga agaggatgag aatgaggagg 120
aaacccttgc tatgactgcc attcctacac ggtcaaattt cccatcagcc caacaatgtc 180
atcgtcgaac caatatcggc ccttctcatt acccatcacc caattatcca caaaagccat 240
ccctaaatca accacaaaac ccacctacca cacaaccaat gctaaacacc accttttagca 300
ctaaccacaaa caccaaccaa ggaaggaatt ntgcagcana aagcctgtag aattcacccc 360
aattctggty tcatatgcta acttgetccc atatctactt gataatgcaa tggtagccat 420
aacnctgct aggtttctc aacctccant tttcctagga tacgactcga acgcaacatg 480
tgcatatcat gga 493

<210> 29496
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29496

agcttttatt atgtggcagg gcgggcttcc ttcaccttct tgtctccaac gcgaactttg 60

accattgttc ttccttcccg caatgcttct ttcatgtct gcctgagtgg gcttatagcc 120
 taaaccatac ttcccacgat ttccttgagt atttatcagg ctagttatgc cgccgttggt 180
 ttttcctaaa cccatcccg gttcaaaacc gttccccaac ataactcggg ccatcattac 240
 cgctgcatcg gacagacaag gttgccccaa gagggagtcc acggaggata tgctgaccac 300
 ctcanaagac tgganagcag tttctaacga ttcttctgcg gcttccacat aaggcatgga 360
 ggatgggcag ctactaaga tatcttctc gcctgacacg atgaccaagt gccctccac 420
 tacgaatttc agcttt 436

<210> 29497
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29497

tatcgtctga ttattcagac atagactcag ctagcatatt ctattaacac attggattca 60
 agttttaata tttgtattta ttttcattta atcaaaataa ttaggagttt tgatttgtct 120
 taagacataa atgtcttttg actcaatact tactgaataa aataacatgt gtatatcata 180
 tacatacatg tgacacactn tanaatatag ttacaaactt tcatttttat aaacgttatc 240
 aatttangcc ctttcaggt tggttgtag ttccggttt ttggttttaa aatgcaattt 300
 caaacggat acgcattgcg ctaaaatggt gctaagttgg attntagttc ttttcaaac 360
 aattttcacc tcatttcana aaccaaaca taggtttatg gcgttttggt gttggtttac 420
 cctanacca agagactaac ttctacctc acgttgctnt ctctcccccc ttcatgttgt 480
 ctct 484

<210> 29498
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29498

agcttttatg atatgattac actatcaagt ataagccagg gtttgctaatt gttgttgccg 60
 atgcgttgtc cagactcttc tcgaccgagg tctctgctt atcattaatt atgcctcatt 120

tcaactntttt gcatcaactc cgtcacactt tgttacagga tccccaatat gttgatcttc 180
 tgcataccat taaattgcgc ccagatgctc actccaacct cgccattcat aaggacctta 240
 ttttccgaca aggctgtatt tagattccct tcccaacccc ttttactgcc ttactcttag 300
 aggaatttca ttcttctcct ctcgagggtc acacaggggt atcaaaaact ctccattggt 360
 tacgacaaat atttgattgg ccacatatac aganagatgt tcgtcggtac atcgcgcaat 420
 gtcccacgt 429

<210> 29499
 <211> 420
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29499

agctttttgt ttcttaanga accactagag aactgctat cactatcaga ctacacacat 60
 gagtccactt agaggtaaga gatgagatta ttgcaattgg ggtagaatg aacatgtgta 120
 gggatcttta gaggatcaaa ttgagattta ttttgggatg tttactgtat tgtgattctt 180
 cctatatgat tatgtgaatt tgtttttagca gtttaatcat atgaatataa catattaata 240
 ttattattgt gtgacatgta tataatgcat gaggcgatg agcgtgttgt cttaggatta 300
 tgggagtgta ataaactatg tgtaagtggc aagttgagta tgtgttaa at tgtgagatca 360
 cacatgtgta ttgagatggt gtgtgcattg agttgtgagc tatgaaccat acaatcacat 420

<210> 29500
 <211> 481
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29500

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 aatacatatg tgaggggtag aggggtgcat agtttttgtt agaaatgtca atgggagggg 120
 tttgagtccg cgacctttgc ctctccctt ctccctttca tccttaagac ccctttccca 180
 ccctatttgt tagtttttct tagctgcatg ggtaatctac ttgcctccct ttttgtattt 240
 gccttgtcta gcacactcaa ttagctgcac gtctctcctt atttgtgtat cactcaacta 300

caccacacaa attcagcatc attaccaaga agcaacaaaa ttcacccaaa accacaagag 360
 acccacacca taatccatgt ttgcattnta actntnttgt gaatntgtgc catatggctn 420
 gtctagtagt gctcctcttg tggctgtaaa gacattgaat ggtgttgatc acattgataa 480
 t 481

<210> 29501
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29501

atctttanac taganaacaa tgaagcatct cattcatgtg aatgttgtaa taaatttaaat 60
 gaagaaattg tagattttaa aaaatgctct tcccaaattt actcttggtg aaaataactt 120
 agatataata ttatgaagac aaagatgtgt ctttgccaag gatggattag agtataatcc 180
 taaaaatcaa caaaagatgc acaaaaattt ctttgccctct actcaaatag atagttctcc 240
 cttcttaaca tatttttact gtggtaagaa aggtcatagt gcctcaacat gttatattan 300
 gaagaatgat aataacattg gaaaaatggt atgggttcca aaaggatctt tagtcaaaac 360
 taacattcaa gaaccaaga aaatttatgt acataaatca agaattattat tatatgattg 420

<210> 29502
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 29502

tagacggaga agaagagacc ttagatggag aagaagaata agagcttaga tggagatcga 60
 agaagagagc acgagcaaaa tagggctcgc gtctgatata ttttaaaatg taagtccaac 120
 atcgggttttc aataaataaa aaaatcgatg ttaaagttaa catcagtctt ttggacgaaa 180
 ccgatgttac cttatcatatc attggcattg gttttctaaa aaccagatgt taacaaactt 240
 acgttaacat cagttctgca tatatcgatg ttaacagatg cacattatctt acaattatgc 300
 caccgcgctt aatatggcga tgttaaactc tgcttttgta ctagtgcttt taaaatagtg 360
 aagtcataat gtgtctctta tatggcgctt cttttagaat gagcttacc 410

<210> 29503
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29503

gtctttaaat tttatncaca atggcccaat gaattacaaa atggtgtcat cgattacaag 60
 attttggtta tcggttacca gtgtgtttga acgttgaaat tcaaattcaa ttatgaagag 120
 ttacatcctt tcacaaaaat tctttgtgta attgattaca atgatttggg aatcgattac 180
 cagtgataag ttttgaataa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240
 tctaaagggt atgactcttc taatgggttt cttgaccaga catgaagagt ctataaaagc 300
 aagacctttg acttgaattt agaattcatt cataacaatt atcacaatct ttgaatctct 360
 ttgaacatct tcttcttctt tttccaaaag ctttctaaag ttntctgggt ttctaaacct 420
 tgaaaaca 428

<210> 29504
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 29504

tgggtgatgt tgcgcgtact gatgggtacc atgaggttgt tgctgtggtt tgacccatgc 60
 gggcggtgaa gagacggcat gggcatctcc ttccttctt tctgcccctg atgcccgat 120
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatccac 180
 ctcgattctt tccccggcaa acaccagatc cgcacagctg gacggcatgt aaccactat 240
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
 catgggagga gctacttggt ccgcctaate cctgcatcgc tgcgcatatt ctttaaatgt 360
 tggacgctac ttcttgaaca tattctgcag tcgatgacag tccggagcca tatcagaatc 420
 gtactgatac tgcctta 437

<210> 29505
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29505

ttctttttctt tgcaactaaa tcttgctttc tttagttaat tntataaaca gtattttaca 60
 tgtatgaatt attttcgaat tataaaaaatt tataaattaa aatataaaaa aataatattt 120
 aaatatTTTT attattntaa tttacaggta tttaatTTta tcacaatatt ttattataat 180
 ataaattaat atattattat atataaaaaan ttgttcttat tntattatga ttntaaaaaa 240
 actacataaa ctaacatata gattatntaa taaaattatt ttatgtaagt tatacgaatt 300
 aagtaaatta aaataacatt tanataatat aagaaattga aaatttatta ttttttataa 360
 ttaanataag aatttgtatt aattatatat aaaaataaat ntacatggct cttgtannat 420
 acataaaat 429

<210> 29506
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29506

tctaccagga ataaatgaag ccgcaactca naattgctct tgcttttagtt attagcttgc 60
 tttggattca acaatcattt tgtgggttagt atagcaattt gccttttaac ttttgacagg 120
 catgacaata tgttgagtgc tgatattacc aggaataaat gaagccgcaa ctcaatgtg 180
 acttctagtt gtatatgttt tttgtagtta ccatgatttt agccaggcta taatgataat 240
 tatcataatt aaagttaatt atgattaaca taattgggtc agtatgtggg agggggtaga 300
 tgttttaatt tgtgtaagcg tgtgtttttt agctggcaat tgccaaacta taggtaccaa 360
 anatattnta gctggcatat tattaataag aaaagaatct cagtacaagc tttatatata 420
 tatctatata taaaactcaa tacaatcata tntctttctt ctaattntat cttgggtc 477

<210> 29507
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29507

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atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattn tttctccatg 300
tatctcctca catgtcttgt gctaaatggt gttaacatga ttctttaag tttccaccaa 360
ttaaacttgc tatagatgct agaaattgat ttctatg 397

<210> 29508
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29508

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aacaattatg acctctccag caacaaatac aacctggat ggaggaatca ccctaacctc 120
agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgtagct 180
ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacaa 240
ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca gatgactatg 300
cagaacatgc agtttcagca agagaccaga gctccattc agagcttaac caatcagatg 360
ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgctctct 420
caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tg 462

<210> 29509
<211> 418
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29509

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atatgtcaga gcatgactnt gtctcacaat ataattaatt atactatttt taaaaaatat 180
atgtaatgct aaattaattt ttataaaatg aaaaaatatt aatttatcaa cttgtgcatc 240

atacgggaac acacactaat aacttttaaat taattattaa gctctgggta gtatatatgt 300
 taaactaaag tcatattagg tcttgattga gtcttattag gggccaatgt aattattata 360
 tttgtataat ctgatataat atctttttaa naaatataat atataagatt aaattcta 418

<210> 29510
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29510

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 ccacatccct gannnncgac ggtgatccac tgcgccagca ccaccagaga gggaggctat 120
 cacgcagcca ctatgcatac cggggcaaga tttcacccat gccgctgcaa agagacgagt 180
 gtggatcatg tgtacctaca tgaccccttt tacacagata taaaagacga tgctacaaaa 240
 gaacattctg ccacgcgacc gcaatgecta tctacccta caaaagaatc agaaggctctg 300
 tgtagaccag acatgggtaa gaatgcatat ggttctactg antaatgata ccaactatag 360
 attgctggga tcgcacccac aaagaca 387

<210> 29511
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29511

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 cctagccttg caacaagtcc tagggaagta gatacggaga tggacaagaa aatctgcagt 120
 attgtgagta gcattttgaa agacgcctct gtgcctgaag ctgatgaaga tgtcccaaca 180
 tcgtccaccc canatgtttc tgtgcctgat gtcaataaag atgttccaac atcttccggc 240
 ccanatgctg aagtactctc ttccccagc aaagagagat caacagagga agatgatcaa 300
 gccgcagagg agactcctac accacgggca ccagaacctg ctccagggtga cctcattgac 360
 ttagaagaag tcgaatccga tgaagaacce attgcanaca gggtggcacc tggcatt 417

<210> 29512
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29512

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 cattaaccta gggaattaaa aaaaacttaa tggctgagtg taactgaaat tgtggcaacc 120
 aaaagtcacc cccaacagcc aacaagacag ccaacaagtc agccacaatt tggctctcca 180
 aaaggctgat gcctaggttg ccagaattat ctctgtggcca taactcccat tttacgcact 240
 caaattaagt gattcctgag cctaaattga atttcaaac gagaccttc accacgtttt 300
 ggaatcacct catttgagc cttgtagctt gagttattgc ctttctata tttctgtcca 360
 gccaccactt aacctacgtt ntaccatccc attaatccat tntatgccaa gaaccacctt 420
 attaagaccc acganattaa ccaccttaat tttcattctt aatcattntc cgcattntcc 480
 atcaagggtt aatcct 496

<210> 29513
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29513

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 tgaatcgcat gtccacttgt aactccaaag tatcaaacct ttcacaaaca aaggtttgaa 120
 gaccatcgaa cctgtccaaa atcttttgaa gaagagagga atcttctcca ccatgtaaat 180
 gtccttcttc atcaatgggt tgagcaccct ttntcaccca agagctatca tgctctttac 240
 ggtaaccaa ggatgcaatc acaacaacgc ctattagaaa ggatctcttg attggaacat 300
 aacgtttaga atcaagagg atgttgaagt gttgaaggaa gagagtgact angtgtggat 360
 atggcaatgg agcatntaat cgctatgcct tatgaatgcg atat 404

<210> 29514
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29514

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taaattaaac taagcttcat cctcagatac ctcttggttg actagactta cttacatagc 120
ttacgaaagt ttagactaat ttagcctaag ctttttctct agatccctct tgttggacta 180
gacttagacc aaacaacatt attgtaacaa catattttaa accaaaactt aatccgcaaa 240
tcctcathtt aagactaagt ttcaatcctg cttcattcaa gttctaaggc aaaagtacat 300
ttcccaatgc taaagtcacc taaccaagca cacaaatggg tgatcagacc aagagcatac 360
agaatntaag cactaaaaga atcattagac acaagaaaca caatcaatta gatattanag 420
taattacatt agttgttctt t 441

<210> 29515
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29515

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ttgataaatg aatagtttta ggtagtgtaa gataataatt ttgtatagtt tagtttgaat 120
tcttaatggt atatgtctaca ttagatttag tttaaatctt ttttatgata aattaggaat 180
agttttacat actctaagtt attaattgta tatggtagat taggaatagt ttacattggt 240
atatgataga ttaggttttag ttgaaattht ttgtataata gattagaaat agtttgaagt 300
accgtaactt attaattcta gattagctth agttttaccat ttntgtccgc cacgttgcgt 360
aataggattg aaggtctcct ctacttcaaa ccttgtggag tggatgtcat acacgcgaac 420
gatgtgcgaa caa 433

<210> 29516
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29516

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 tttggttaat tttagctctc tgttcggagt atagacgacg gatgatgtcc acagtccacc 120
 agtctttgtc atctctctgt gcttgtcctt tntgacggca aagaaagttg tatatgactc 180
 tgaatgctag atggacttgg agatggattt tggggagcca taatgacttt ntatgtgaag 240
 aatttgtatt gttgctgcca ttcttgacct tttttggggt taagattttg gaccattgta 300
 ttccttccaa ctcttagaaa atcttgctgc tntgactgtg cattgcaatg agccaaggaa 360
 tggcggagag agtanggaca ttgttgcata gtagtgggta atttgtatga caactgttgt 420
 tagtagaatg tatatgtgg 439

<210> 29517
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29517
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 ggcacaattg gatgaaagca agagtgggtt tcgatatctg tactctatgc tacatttgct 120
 tgctaaatgc gcagcagaat tttgtttagt gcaaactaat gcttgtgtat ggctggttgt 180
 gaataaggta gcacatatgg gagtctgaat atttgctaga cgatcccaac ggtcaaaatg 240
 tagacttatg cactagggac ttccagtaca tatttcaagt cactccaacg gcgaacgaat 300
 tggaacgaac gaaatgctac tgggtgtcttt aagtgagaca aagctgcat tcttggttt 359

<210> 29518
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29518

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 aactagctca acaaggacgc tgtgtacntg ctcatgaat agtgcttgaa cgcattcaac 120
 actatataga ccagcctagt gtctactacc gtcattacaa caccagattg gagccaagaa 180
 tttgagctca tgtgtgatgc aagtgattat gttgtaagcg ctgtattggg ccacaggaag 240
 ggtagagttt tccatgctat ctattatgcc aataaagatt taaatgatgc tcaattgaat 300

tatggcacca tatataagga aatgctcagc cttgtctatg ctctggagaa ctcagatcat 360
acttaggtga tcaaagttat tgttacactg ac 392

<210> 29519
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29519

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aagtccatgc aaaaatatct aagttcattt ggtattcggg aaaggccttc attattttca 120
tcctcaatat ttttttcaaa aaaaaccatt tgtcatgttc tgatccaaaa atatatataa 180
caaaaaaact ggttggtgat tcttttcaaa gcatgtcatg ttcaagaaag attttttggtt 240
taagtcccaa aaagagttat aatctacaac tacaccatca gaatatcaaa gcatgcataa 300
attaatcaga ataatctcgc gtaagttttt attcaaaaaa ttcagatcaa agtaataaag 360
tactgatatc taatacgaag cgatgaataa acatatagac aagttctcaa atttcanatg 420
atcatggcta aggaactca 439

<210> 29520
<211> 294
<212> DNA
<213> Glycine max

<400> 29520

ctcgcagagc tcttgatgta tcttgaactc gttcgttgat tgacccatga gacctttggc 60
atgaccctag ccatcatcaa aacatcattg aatcaatctt aaatgatcat gaagctgtgc 120
tcctacagac gtggttgacg atccttagcc gatgtccagt catgcttact aactcatact 180
atccgtgact ctaatacttg agctcctatc ttagataagc tgcattgctt agagaagtga 240
gacgagattg tgatgctggc gacagatagc gtacaggatg tcacgacatc acgc 294

<210> 29521
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29521

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ggcatgcaat gtcttttata tactnnntgt acaagaaatg gaaaagctct gatacnncac    60
ttggtagaa aacaagtggc cctcagaata ttcttanaga aaggggnngg ttgaattana    120
gaatanntca caaacttatt ccctttaatt aaaaattctt aatttgattt ntaacccaaa    180
tcctaagatt ccttttaaaa tgaattccta aataattatt caaattaaac ttactgaata    240
gaagcaataa gcaataataa ataaaagagt ttaagggag agaaagtgca aactcagttt    300
tatactagtt cggccacacc cttgtgcata cgtccagtc ccattgcaacc cgcttgagag    360
ttccactcaa tcgcaaaaac cctttacaag ttctgaacca cacaaggaca acccttcctt    420
tgtgttcaga tttctttaca acaagagacc ctcggtctct taatccctt                469
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<210> 29522
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29522

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ntaatcaaa gtttagtaat gatccactaa cctagaattt taagaactta atgccactaa    60
cctaggggaa taaaagaact taatggctga gtataactga aattgtggca accaaaagtc    120
accccaaaca accatcaagt cagctaccat ttgggtctcc aaaaggctga tgccataggtt    180
gccaattggg cccttattac aactttaact aaatcaaact aaagtcgttt tagttgatta    240
acaaaaaaca tatttttttg gtcagccaac tttacaagga ttggaccatt atttagacaa    300
actaaacact ctaaaattga gacagagtgg tgccatttag tcctcctcca tttgagccat    360
gatacaactc acaaccttgg acttttctcc ttgaaacttg agcttgattt caaatagtgt    420
ggacaacact tgttgaagaa gcttctt                447
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<210> 29523
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29523

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agtcttttca tataaataat aaaatcatct cggctcaaac aaggctgctc aagacttcat    60
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gcaataaata tagaaaccta taccctaattg ttacattcta tcagaacatt gtgttctctac 120
atcctctagc atgaggttct ccatagtcac tcatctaacc atctgtctct acgaacacaa 180
agttcgaaat catcacaaga tccaaacaca aatagcacac ggngagtggag ttatcacatt 240
cctaactagt agagagaaac gagacaacta gatatacata tcatgtaaat gagatacaac 300
ttacttaaac atagctcacg taattccgcc actgtgtcac ataacatcac atcattcacg 360
tactcaaaga tcanaacaca atatcactaa atcaatcaat atcaataaat acgcaagcat 420
tatgcaatag atac 434

<210> 29524
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29524

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ccttcaacct cctctagtgg aatttctctt tttcaaaact atcataatct gatgagatga 120
atattgtgatt tgnnggttgg atttgtggct ctttacttgt ttttaagttat gttcttggtc 180
tgggttatga attatgttct tcatttggat tcttagatgt tgttcttgcg tttacaaaat 240
aaacatgttt aaagaaaaaa aagtattttg tgatgacttt taactgctaa tggagctaga 300
tctgtcttga cggaagaatt gttttgaacc ttttagttaa gataaataac caaagtgaac 360
tttttttaaa aaaaataaac taaactgaca caaaaagata aaaaaatcac ataagttatt 420
tagcctacaa aatgacatgt aaccaacatt ttggacacct ttattacaat ttacacagta 480
ctaatt 485

<210> 29525
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29525

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gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtgggggtgct 120

attgccccaa accaagcttg gctaatcctg acccaacccg ggcatagtca gtcagtgaga 180
acctgcgacg tacctatgca ggcgagctcc tgacagtcaa ccaataaaaag aacaaagtcc 240
acaaatcaag gaggccttg gggcggctgg ccagctatgt atcttgagtg gtatctggaa 300
tttagcctct agtaatcgat taccattcat gggtaatcga ttacaaggct taaaaatgga 360
gataggatgt taaatggttt ctggtaatcg attaccaatt gtgtgtaatc gattacat 418

<210> 29526
<211> 423
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29526

ccaagtttct ataaataggg ggagaagtga ttgtgatata gggttcggcc cctgagacac 60
ttctctctct ttogaatttg cttggaaaaa ttgtttccgt gaagaaaatc taagccgagg 120
cgcttctaaa acgtttccgt aacgtttccg taaggaattt tgcaagggtt tcgaccattc 180
ttcgacgttc ttcattcttt cttcatcggt cttcgatctt caacgggtaa gtacctcgaa 240
ccaagctttt tgattcattc tatgtaccgg tgggtgtcca cattgtgttt cgtgtattct 300
tattctcggt tcatttactt tgtatacccc cttttgacgt gcttacagca ttntatctaa 360
gtcatttctc gcttaacctt caactacaac acatatccac cgatcgttcg aattgtatta 420
tct 423

<210> 29527
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29527

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ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa atacatgaaa atacaaaaaa gtccctacta caaagactac 180
tcaaatgcc tcgaaatata aggctaaaac cctatactac tagaatggcc gaaatacaag 240
gcctaaacaa aggtaaaatc tattctaata ttacaaaga taagcaggct catacttagc 300

ccatgggctc gaaatctacc ttaaggctca tgagaaccct agggccttcc cttggatctc 360
 tggcccaatc tacttggagt cttctatcca atgcccttgc gggatatgat tgtatcattc 420
 ctccttctt ctcatt 436

<210> 29528
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29528

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 gttttttttt tcctttgaac ttatccaaca tagtggctct gattntgtaa gcactttgtg 120
 tttgtgtttc tgttcatatt aatgaagttt ggcttgtgct ttttctcaag ttactattat 180
 agattaattt atcaggatta tggccaattt taattcttga aaggcatttc atgggtttat 240
 ctgttcttga attagtcaaa gacgcttcaa cagtaccatt tttttgtcct tttcatatct 300
 atgatgaatc ttcctagttn ttttcttttt ggagtgtgaa acctgaatat tntgtgctaa 360
 atagtaaata gtaaatagta aatatggngg tgcaatctca ttacttaaata aaaatctt 418

<210> 29529
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29529

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 gagctggctt ctttctggtt aattatagcc tgatagtttc taactacagc aatattccta 120
 attgcatttg attctttatc tgactataat ttgagtaaata cctaaaatgg ttatctttta 180
 tgttttcagg ggtgaccatg tcaaattagt gagggctgga aagcatcagg tctgatcgca 240
 cacctttccc ttgtaaaagg tttttttttt tcatgaagac attgtttcat ttaaagttat 300
 gctacaggtg gttnttcttg taaaaggacc aatttacttg gtctgcatca gctgcacaga 360
 agagccttat gagtactaa gggggcagtt ggagcttatt tatggccagg tataatcggg 420
 ttggatgctt gtatgtccca atanaaaaaa tgga 454

<210> 29530
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29530

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 tgaagttcta attcaagatg ttttctttgt tgcattgggca taatgcaatc actctatgtc 120
 tagcaatgat tttattaaga tgtccctacc tttgagttct actaaaaatt atcctctctc 180
 gagcgactaa tccctaaaac tgatgcataat aaaaccttca atgtatttct actaaggatt 240
 accctctttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacattt 300
 gttggca 307

<210> 29531
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29531

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 gacctaatac agccattgag aatcgcgta ttactatcat acatctcaga gagagagaca 120
 atgaagcatc gtgacacata gcacgaccaa gcatacaact aacacatgcc ttccgtagcc 180
 aaccaagggt gccatggagt cataacttga gaactctatc tacttcatca cacatatata 240
 tatacatggt ggaacaatgt g 261

<210> 29532
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29532

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 cctcctggt aattcgagat cacttgatat tagtgaaaaa aattgtttcc gtgaagaaaa 120

tcgaaaccga ggcgcttccg taatgtttcc gtgggtgatt tcgcgaagat tttcaactgt 180
 tcttcgacgt tcttcggtcg ttcttcgtcg ctcttcagtc ttcaaccggg aagttcccg 240
 aatcaagctt ttcaattcat tctatgtacc cttagtgggc ctcatcgtgc ttcacgtgct 300
 attattttca tattatatac tttgcgtacc cccttctgac atgctttagt catttac 357

<210> 29533
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 29533

acgaaggata cggaacttag aaaaactaaa tccttaatgt aaggagtacg agacaaccat 60
 agcgaattat taaacaaaat cggtagttta cttaagggtca ttccagaaac taccataact 120
 tctgaacata catgcaaaat ggtaacaata agtacctcca atttaataaa tgttattaat 180
 gaagatattg accaaaactg agaaaatgca actgagatat gatcagtatc agaaaagaat 240
 ataaatccaa ttaattccca cacaggaaaa accctctaaa tatatatcaa cgtcaactgt 300
 cctaccttct ataaagaaga aggaatcaat ttaagagtta gtgcaacaac attatagtgg 360
 acatgatgcc agaggagata catcatgata cctc 394

<210> 29534
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29534

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 aaaggaagggt ggggtggatgg ggaagcttgt tgtggaaaag aaattctaaa attttagtgt 120
 gtgctacaaa gtgtttcatt atcatgagag aaacaaggga ggaatttttc gctaggtgtg 180
 ttgttttaaag agagataatg agtttaatat aaagaaacaa aatgacatca tgtggattat 240
 ttcgtggcat aattaagctt attataatat agtaaaccac ttttagcaagt gtttaattgtg 300
 agaaggggga gacatgcaat cagctagagc aaaggctcct ctgctcaagt ctctaattctt 360
 gaagatctct atgcaaaaata gtgtttttaca actcanatca nactaatnga tttgatcagt 420
 ttaagcgaca act 433

<210> 29535
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29535

tgccncaaga tgaaggtttc ttgtggacga gggcatgctt gtattgttcg atcatgcat 60
 tcanaacttc cgtttgtcca tctgtttgtg gatgataagc tgagctcatc cgcaatttca 120
 tgtegtcat ctgaaacagg tcttgccaga aaattgctta tgaataatgg gtctctgtcg 180
 gagatcaagc tgcgtggcat gccatgaagc tttctgacga tgtccatgaa caggatgacg 240
 actgagtaag ctgagtgtg agttggcagc atgcctaggt gtatgccttt tgaaaatcga 300
 tctactaaa ccaatatggc agtatttctg tgaatcggag gtaggcctgt gatgaggtct 360
 aagggaaagt cctcccatgg ccgacagggt accgataatg gacataagag accggcagac 420
 ttcttagtct catacttagt gtgttggcag tcgacacagg ttgctacaaa acattntaca 480
 tcttttct 488

<210> 29536
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29536

tcactcgacc cggatcctta agtcacctgc ngcatgcagc ttattttgcc atctatggtc 60
 ttaaacaatgc nctagagcc tggtttgata aactcaaggt gcacttctga agtttgaatg 120
 taagtccagc aagtgtgatc cctctttatt tgtctactcc aaagggtcct caacaaccta 180
 tatgcttgtt tatgtagatg atatcatcat aacagggaat aatccttctt taatcaagca 240
 actcatctct aagctaaaata ctttnttctt tcttaaagat cttgggttctc tagactatct 300
 cttgngaatt gaggtaaaac atcaatctga tggatctatt gttctcactc aaggaaaata 360
 cattagagac ttgttggcct anactaatat gacagaagca aaacctatnt cttcacctat 420
 ggttactgga tgtaagctaa ctaanagtgg atctgatcca ctactgatc cat 473

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29539

tcattcttat attctancat aatccaatat ccagaagact ttgataggga agttagaatc 60
ctagggaag caaggcacc aaatctaatt gcattgaaag gatactattg gactcctcaa 120
ttacagcttt tagtgaccga gtttgcccca aatggtagct tgcaagccaa gctacatgaa 180
aggcttcctt caagtccctc tctttcttgg gctataaggt tcaaaatctt gcttggaaca 240
gcaaaggggc ttgctcattt gcaccactct ntccgtccgc cgatcatcca ctacaacata 300
aagccaagta acattntgct tgacgaaaat tacaatgcc agatctcgga tttcgggttg 360
gctcggcttc tgacaaagct ggacaggcat gtgatgagca acaggtttca gagtgcatta 420
ngatatgt 428

<210> 29540
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29540

gcatccatta tccatagnga gaacacagat gtgtagacta ggatgggttg tggttgaacc 60
aaacaaatac tgtgctaagg actgcagaaa caactatctg ttcttattag gttaatatct 120
gatatgtgaa ccattgggtc acacgatact aaattaatgt tttgagggga ggatccacta 180
cagtagcttg ctaagttgct actgaagccc ttatgtgttg ctcatgcgtt gcactactac 240
atgggcttgg acacccgact aaaccagttt ctaagttttt atttggagca tgatgctagc 300
aacatacgac tattatagtt aaattacaga attatttcat ta 342

<210> 29541
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29541

atTTTTtaat caaaagacac tgtagtcttt tgaaacataa agcagaggac attgagtcct 60

atgaaaaaaaa acaaatgacg ttgagtccta ttgtcatacc ctgatttcgt ctgaggattg 120
 tcatttccta aaattntcaa ccttgctagc cgaattcagt tgcttgcgct acttgccatg 180
 caatacaaaa ggtttttttaa cgtttatgaa aagaacatga aaatacccaa agggggagggc 240
 aaaaggggtca ttttaagact ttttcaaacc cctgggtcgc ccaagctagc ctctgggtca 300
 cttggggccat cgagataact tcatgggtgaa gtaattagcc cgcct 345

<210> 29542
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 29542

gggtcaggaa gcacaacttc agtcaagcat ttcaagtatt atggatcctt atgctatagg 60
 catgttcttg ataagaggag aaagaagttg gatgacaaga gtgagccaat gattttttgtt 120
 ggatacaact ctactgggttc atacaaacta tacaatccaa agaatcaaca agttctatatt 180
 agtagagatg tctactttga tgaattaagc tcatggggag agttttcaacc tactttctgag 240
 acaatacaga agattcatct tgaattgaaa aatgatgac cagtaggaga gatacatcaa 300
 gaagtgggtca ataacgaacc ttagatgggtg gttgatagac ctacaagagc caaaagtttt 360
 cccttaagac tcagagatta tcagggtttac cctgatagtg caattactga ggatgggtgat 420
 ttgggtcagca tatggcactt atggcagaca tggaacctat tactttttg 468

<210> 29543
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29543

atctttttaag tccaagtttc ttctgccata cccagtgat ttctttggat agataataga 60
 taacattntg atttgacagt tctaagat tataacaagg tcatgtcttt gcaattttga 120
 gattaacctc aagcttgaaa gtccaagttt cttctgccat atcccagtgat tttcttttga 180
 tagataatag ataacattnt gatttgacag ttcactaaga ttaattcttat aaagatttcc 240
 ttttctctta gtggtgaaaa gttgggtccc atttttgtct tggacgacac acccatcatt 300
 gccaaaggaa atatcaagtc gactatcaca naattgactt atactaagca gatttgtgtt 360

aagtcctttg aanaatagta cattctccat gggaagatag ggatcaatac ttatctttcc 420
tactccatca atct 434

<210> 29544
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29544

taaccattaa gcacaagcca tacacaagac ttaacactat taattacatt taaccactaa 60
gcagaacccg ccattatgaa acctggcttg ctaggaaaac aaaggggtgca aatattttga 120
acaattatga aaaggatgag aggtttgcta ggaagccga taattagaaa atcctgcat 180
tcatttaa at catctgctga tatagacaag catgcagaat catgttaa ac gtttttcttg 240
tgatttggtt ttgatagttt ttatttctaa atacttatta aacatcatgt acaaaaaaaaa 300
tgtggcatgg accaggattt ctagagttgc atttataatga aacatataac agtacatana 360
ggatagagga tcatccatcc tctcttctgt cccgctttga aggtacatg gagcacatgg 420
aattcatctt gtcaatatag ggatattnta gtgtcaagca agcctcaagt agcac 475

<210> 29545
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29545

tgctttataa ttngattntg nttgagttgt gatgaaactg gtaagttgtg atgaaactgg 60
taatattgat gataaaatat aatattataa cttgatagcg ctaatatgta attataacct 120
acaagtgctt gatattctaat ctattaactg tatatatgaa taagttattt aatttttttg 180
gaaaaaaaaa aaacaaactt gtttaataat taatttaa at aatttcttat caaatgtaaa 240
ggtgcttctt attaataaat atattagaaa agatatatat tatatggtct taatatttat 300
ataatattaa aatgttaa ac tcaacttaaa ttgtataaat atttatatcc tanatatatn 360
tataattata tccatgttac tctacatanc aaaatattta tttttattat atntttaagc 420
tctttaatta tta 433

<210> 29546
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29546

tctagtatatt ataggtcttc ttcaacaagt ttccattggt tctaaatgga tagatttctt 60
 cacttgagct tgcatttgaa gattgtgggc gttggagcat ttaatgcttt cattaaatgc 120
 acatactttt tcatgttgaa aaatcactct ttnttacttt cgtgtggaat acttcaacaa 180
 aaatcacttc ctttgtgtta gagtaggtct gtcacagtag agcacatctt ttgatgatgt 240
 ttggcaactt ccaggtcttg agcttcattt tttctttata ggatccgaca caaatccttg 300
 gagaattntt tttctacaaa acgaatctca nacatagatc aacaaatgaa gtttaaattg 360
 catcggtact gttgtatcag atcttggctt ggttctaact atcgcttgaa atgannacac 420
 ggatgcatga gccacgctca natatcacat aagatgtaac ttttaacctt tgcatttagt 480

<210> 29547
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29547

agtctttatt ctttagaaga gaaagaacat gtaattagga ttacgactga naatgctagt 60
 caatttggtta gattgattgt gaaggaatgc ttttaaccgta actcgggtgag ggtgtgatct 120
 taattgtgag agaaacgact aaaattaggt aatgaatttt gcatgaatct ctgaattatg 180
 gaatgaatgc atgaatctga ggatgatgaa ggtcatgttt gattgtaaat agccacttag 240
 ccaaaaagct gaccatgtgc atgaatgatt tatcccttgc acccagtttg agttgaatta 300
 atgtttgatt gattgaacct tgagcctgca cagttatctc atgctacctt gtcttangtt 360
 gtangaaagc atcattcgta gaaagacttg gttcaaggca naatttgccc cannattggg 420
 agagctact 429

<210> 29548
 <211> 475

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29548

tgtctcggaa atattggttc taatatggta ctaattgttt atttatgggc ttgtacagat 60
ccaaaaaatt tgttttagtg agacaataat ttttttatca atggcaataa aaacaccaca 120
acaactatca tttatataga tagatagata aatatataacc caaatattgt tattgatcca 180
taataaaattt ttcttcattt ttgttccttg atatttgaca tggtttttta aattgtagtc 240
attagttaag tgatgacatg tcactactaa aaaatagggt ttcaacattg gttattaagg 300
actttccaca tcggttatta accgatgatg aaagtaccaa cgttgaaagt aatatcgtta 360
acatcgattn tccaaaaccg atattaatat aaaattacaa catcggttat tgaaataact 420
gatgttatat aataagaatt ataaaanaaa gtaatatatc ttcatatcaa catcg 475

<210> 29549
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29549

ttattctttt cttaaccact tggtttcttt cctgccatct aatatctaga tatgtacatg 60
gtgttgagtt ggcttggtg taggtatgta cagaaacata tctctctcat ttcagggtat 120
gaatgcccc a gcttctgtag atcttgctta agtcaaaatt ctatcacatg gacaaatgtg 180
catttcttct cactgtcttg cagacaagat tacctcgcta atattgggta aaacgttcat 240
taccggttcc atgaccttaa gtatggcttt ccatttggt catgtattga agaattctga 300
cgtggcaagc tcatccatgc catatcatca ggcaccaggc cactangtgc ttcacgtcca 360
gtgaagtaat ctaatggacg agaagccggt ggtgcaaccg tggtcacct tggtgtacct 420
gcatttacta atc 433

<210> 29550
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 29550

tgtaattgat aaaagacaga aatgatgcag agttgatatt attgagcttc gngtgtgtgt 60

ttacctttct tagcttttca ttggagagtc atcaaccttc aggcctttct ttgctagtag 120

cattcttcat gaagttctct gtatgttatg catagactca ttctatttca tgacttattc 180

tagactgagg acctcaattt atcacatttt gttaggggtc agtcagaaac tagtacgata 240

ggctatgaat tctttgttaa taattntagt cttatttcta ctgagcttcg agcttgtact 300

agtaatacta cacgacttan atagtanaac taagagcatt atgctacacn ccctattatc 360

agntatcatg ttatctatag tctatactca atactgttgg tacctggctt ttactttctg 420

ctctaatacct tatgacccac aatgggaaag atgtcaatnt cttaatacag cacaac 476

<210> 29551

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29551

tcaatcttgt atggaaaccc gctgagttct ttgttagcac cgaaactcta ggaggaggcc 60

aagaaactac tgtgtaagat tttctttttt tccttgtagg tgttcttgat ttgtgaatct 120

cacttaaatt ttgagcttaa tatgtggcat gcattgtgaa tcacattttt aatctttatc 180

agctaagttg agttgtttat gtatgttgta gggcctttca aggagaaacg aagcaatgag 240

cttaaattct aatagctcan aatcacatat aattntcaca tttgtcattg agtctttgtg 300

taaggtactg tcacaatttg taattctacc taacattacc agcagntgtg tatggaaa 358

<210> 29552

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29552

tgtggtggtc attctctacg ccattntcat cgctgtcgta tgtaaaatga cggtaaggc 60

tcttaagaca gcaatgtaaa gatgtacggt atgataatag caaggcaaat tgaaatagaa 120

tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180

catagaaaca ctccccata cttaacaaca cat

393

<210> 29555
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29555

agcttgccctt cttgaggtcc aggacagaca aggcagccga aggaactant tccgctccgg 60
agtatgacag tcaccgctnt aggagctgct gttacaccag cacgcgcttt ctaggccatt 120
aagggatggt cgtttctctg ggagcgacgc gtccagctca gggatgacga atatactgat 180
ttccacgatg aaatagggca ccggcggcgg gcatcactgg ttactcccat ggccaagtgt 240
gatccagaaa tagtctcttg agttttatgc caatgcttgg ccaacacatg aggggtgtgcg 300
tgacatgaga tcctgcgtaa ggtgtcagcg gatcccgttt gatgccacg ctatccgcca 360
actcctaaga tatccgttgt gttggaag 388

<210> 29556
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29556

gttgacagaa caactgagca gaatggaaga gaatatgttg acaatctatt gatcaatata 60
aggagaagat gaacctagct gctagtcata tgcagaggct ggaggatgaa catacgaatg 120
tatcagctct gcanattgaa aggggaagcaa gagagagggg gatngaataca tttcacgagg 180
aagctatgaa atggatgaat aggttcgctc tcaactctgaa tgggagtcaa gagctcccaa 240
ggttgttagc cagagccaat gcaatggccg acgcgtactc ggctccagat gaagttcatg 300
gtcttttcat tactgccaat acatggttga actaatgacc caca 344

<210> 29557
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29557

tatctataacc ttctccctcc tcaccagaac attaaagcta tntccgcatt ntcctacccc 60
 cccccccctt gagtgacgct tgatactatg gaacactccn gcnnccgacc cggggtcctc 120
 tacagtccat ctacacgcac tctaacatag ctgttttggg atttattcgg cgacacgatc 180
 caaccggagc taatatgacg catatctgat catcttgcgt tgatcaaagc aaataacaaa 240
 actgcggggc tatgaacagg gtgacgatga tggagaatcc tgcgttgcgt ctagccatcc 300
 aatacagcca tgtatcctac cagcccagca atgtcgtaac tcacgccata acaaaccttc 360
 tccgtaccca ccgcccagat agtcgaacag gccatcccta agatcaccca cacagcctac 420
 ctacacaact ctcaatgaca aacaccgcgt gtacgccaga ccacacatca accaagaaat 480
 gaatctccta tgagaaacct taaataaacc cccatccaga gcttatctga cttagccctc 540
 aaatattgaa agtcacggaa ccctccg 567

<210> 29558
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 29558

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 tgattttacaa atatgtttta taacagctac taatatttga attcgatatt ctagactgtg 120
 taatcgatta cacaattttg gtaatcgatt accagcagtt aataaacggt ttaattcaaa 180
 ttttaaaagc tgtaatcgat tacacaattc ctgtaatcga ttactagaca ggattttcag 240
 aaaaatattt ctaagagtca caacttttca aaggctttat tcatgactac caatgatcta 300
 tatatatgtg acttataaca cgaaattgct cagaagtttt cagaacaaca agtgttttatc 360
 ctctcaaaga gcaaaatcat tttatcctct taagaattcc ttggccaatt caatcgcaat 420
 tcattaatga attatttgag tgctcaatct gtaaaatcta tc 462

<210> 29559
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29559

tataaattac attgtaatta aaatttatc tagataaata ttaataattt aaattatgat 240
 antaaattat ttttaattggt taatttagag atcgataaag atataagaga gacacataaa 300
 ataagagtac tctaatatgg ctaatagaga aagcttttgg ctagctagct aagcacatgg 360
 tatgtaaata tacattttaa gatatgaaga tcacataaag agaaa 405

<210> 29562
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29562

gtagaacttg tccactcnct tccttcaca tctgaaagag tgtgaagggt ttattttccc 60
 atatgtgata agttctcatg tgtgagccaa gctgcttaa atcttaaggg ttattttccc 120
 ctanaatgag agagatcccc acatataagg agaataacga tgagtgttag tcattcctct 180
 atccaacttt ctagcaatat aacattatga ggagtgtac gaacacactc tctaccaatg 240
 aacctataac gaataccttc aacatgctca ttaggcatca tgggccgaat aataggattt 300
 tgcacaagat ctttgatga agaaagacc tacatgtgct gtgtccact tattgaatct 360
 tgtacgttca tgggatgta cgttgtntaa ctatggtcgc tggttgatga gggactcga 420
 catcctttat tggcttaatg gctcgttct tggccgaata ttatatca 468

<210> 29563
 <211> 256
 <212> DNA
 <213> Glycine max
 <400> 29563

agctcgctc attgaggttc aggatggaca atgcggccga atgaactagt tccgccccgg 60
 agtacaactg tcaccgtttt atgagcgatg gcaccgagca cgcttccaag ctatcaaggg 120
 atggtctgtt tctgcggtaa cggcgcgtgc acctcacgga cgacgagcat actgactttc 180
 atgaggataa aagacgcccg cgggtgggcac cactgagtac tcctatgggc acatttgatc 240
 cagaaatact tcttga 256

<210> 29564
 <211> 445

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29564

tctagccaaa gatagagggg gagaaagaga gagggggggag cacgtaattg aaggaagaaa 60
aagggagaga agttgaactt tgagttgtgt ctacacaagac tctcattcat caaagttaca 120
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240
acacccatct aaaaactaag ctacacctct tgagaagctt ccttgagaag caagagctta 300
gctacacaca cccatctaan aactaagctc acctccttga ctaaatacat gaaaaaacia 360
aaaagaagtc cctactacaa agactactca aaatgccctg aaatacaagg ctaaataact 420
atactactag aatggtcaaa ataca 445

<210> 29565
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29565

cagctcggac ccgggatact ctacgtcacc tgccgcatgc atcttgagct tttgcatang 60
ggttcgatgt ggagtagaa tgtgtgcacg tatcatggtg caacgagagt tggatgatggg 120
cttgggcttg tcatggatac gtgaactggt ccattcctcg gaatgcaccc aataacgcaa 180
ctcacttttg acaagcctaa gtttgtgctt tgttttatat taaaatcatc ttgatggagc 240
taatttttgc ttgtgtttct ggtgctttta tgataaaact aaattgatta attgaatgac 300
attgcaggta aagttctata atgcacccaa tatacctgtc attcatatat tgaaatt 357

<210> 29566
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29566

nggcagatat agtctagata gcaactcgggtg attgaacact gcttttggtg catctacatg 60

tagaagaaca caagacgtta gcagctgaat aagaataatt aaacaaaaga atgagaggga 120
atgcagtggc taaaatacat aacactatgc ctgtaaacia ttaaaagtta tgatataaaa 180
gtacatgtta ctottacaga tcaaaattta gattatatcc tccacaccag acttacatct 240
atatatgatg gataccatt agtaagttag gtaagttggg ntaacaaata atgcatgttg 300
cctactaatc ttgtcatttg tgagagaact gtggcctttg ggcattggga agttcaaaca 360
ctcaaagttc tacaagttta tatctcttat cttttctgat aagatacgat gtttctatta 420
atatactnta gcaacacaaa gacattcata tac 453

<210> 29567
<211> 334
<212> DNA
<213> Glycine max

<400> 29567
ctactatgta ttctacacat gtcttctttg tccattgata ttctgaacta tgaaatcttg 60
actctcggct atgggtttatt tctaaaattg gatttcatat ttgcaaaaaca aacaaggcta 120
aaatgttatt cgtttttctc tatcaccaaa catacattat atctatatat attgtgagta 180
ccagaggtag taagcattac atgtaattag attgacttgc caccaacatg gttccaagct 240
acaatcttat ttgtattgga cgtctagtaa tgtattgtat atattggtag cattctatca 300
gcggagtcta ttcgagcttt ctttatttga aata 334

<210> 29568
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29568

tactaaggca cctgttctag ctcagtatga cttttctaaa acttttgagc tagaatgtga 60
tgccctctgga gtgggagatg gagctgtatt gttacaaggt gggcacccta tagcttattt 120
tagtgaaaaa cttcatagtg ccaccctcaa ctacccacc tatgataaag agctttatgc 180
cttaataaga gccctccaaa ctagggaaca ttaccttggt tccaaggaat ttgtcattca 240
tagtgatcat caatcactta agtacattag agggcaaagc aagttaaact agaggcatgc 300
ataatgggta gaggacctag agcaatntcc atatgttatc aaatacaaaa agggaataac 360

aaatgtggta gctgatgcc tctctangag acacacattg ttttgctccc tacgagctca 420
aaatttagga tttgataata ttanggactt gtatgc 456

<210> 29569
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29569

agcttgatta tgaaattggt atacatacgt actaatccaa taaataatca ctaaataagca 60
aaataaaact aaaaattgtg acttttgttt ctogatcggn tcaaaggtgt caacttggaa 120
gcaatggaca catagtgggt ttctcagaag aatgttctga ttgaattccc attaagtctt 180
aaggtccttg cagttgatca tgacctcact attcttgata acattcttaa tatgtgttct 240
cgatgccact atcgcggtaa tttcaattaa ttgttactat ttcttgtaca aagatttgat 300
ctttttttat tgatgattgc gtttatgtcg caactgtggc atactctgat gcctcacttg 360
ctattttgcg aggaaactct ggagtcnata tcaaccacca aaaaaacaag attctg 416

<210> 29570
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29570

tgagccaata ttaggaacta agcaatgtat tctattttca caattattgt gtnnttcact 60
ttagcttact caaaattcta agctcaacta atagtcacta aaaataaata ttttagcttt 120
gccataaata aggcttgact gccatttaga aagtgagggg ggagttcttc atttggcatg 180
aattcacagt ccatcgagag gggaagcttc ctttgggctc cactcttcat ctttttctc 240
cctccatgtg ttttgaggct acccatggaa atgggtagct aaatcctcca ccattggagt 300
tagatgcaac caaactcata ttctcttcta tcttttgata ttntaatata tatatatata 360
tatatatata tatatatagt attaatgtta gtatttgctt ctttatttaa tgtctgttgn 420
ggaatttcca accatggcat gttttaggta cttg 454

<210> 29571
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 29571

agcttcaaga taaaattgat gttgggtggg tcagcaagaa ggttgtcaat ggaaggtaca 60
 ttatccttct tgagattaaa gaatgcggat gggacattct ttgctttgta aaaaaacaaa 120
 aaaatggatt gttttctttg aagtccatga actagtttgt tgatagaggt gtgattagcc 180
 tgtctaataga tcctttacat ttacatggaa ctggagggtcc tatgacaagg tccaagacta 240
 agaggatgaa gtaagcattg caaggcctaa tcctaaa 277

<210> 29572
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29572

tgccacccag ctgcgccagg cgagctaggt tgcttcctcc agattgcagg agaacttctt 60
 ggaaggccct gggtgctatt tgcaccccat tttactaaa tgcacccctt tgctcttttt 120
 gctgattctt tttccgtaac gttatggaaa cttacgaatt acgtaacgat acttgttttc 180
 cttccgtaat gttacggaac cttacggatt acataatcgt cccttttttt cttccggag 240
 tgttacgaaa ctttacggat tgtgcactaa cacttccttt taatttccgg catgtcacga 300
 aacttcacgg attgtgttac aatgctttct tttgacttcc agcatgtctc ggaacttcac 360
 aaattgccta acgatgggtg ccaagtacct cgaagtgtgc aaacgagggg cgcacccaa 420
 caatggatgg tccccagacg atattanggt atgacaca 458

<210> 29573
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 29573

tatggagatg cagcggaaga tcaaggacaa gacgcgagag gagacgccat ccactagggg 60
 ataagccatg gaagactgag gttctccacc aagaatgtgt cttggataag aagcttggag 120

<211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29576

tgtattcagt agcatataat ataagcaatt attgggagag agaatcagag agatcagcgg 60
 actttaatgt aacaaaaggt cactgcacgt tggtagctc aagaagggat tatattagt 120
 taattcaata aacaatctat gccaatccaa aagcgtaaaa gccattacta ttgaacgtgg 180
 atgactagt tgggtccacat attagggacc attttagaag ccanaaagg ctaaaatata 240
 angattgctt angtgaaaaa aacaatcggt ttctaggaaa ttgaaagtga aagtgaaaat 300
 catctggcat aggagaatta aaaaagttga aacagggacg gaagataaca aaaaatatat 360
 actagtaaatt attaggggtta attactntga tatttataat tatacaaaaa tgatcttagt 420
 ttttataca 429

<210> 29577
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29577

gcttggatct tatatatagt ttgcacatgt ctgtgcaatt gggtattggt ttaagagggtg 60
 gagtataaac acattagaat gttntctttg tgtgtcactc tactaagatg attatctttt 120
 tggattctgg aatagatgca acacatcttt ttttactaaa tcttggaaag taacttctaa 180
 aaactttata ccttctagaa gatacttttc ataatacana aattgaaaca gtatttttaga 240
 aagtactttc cacaaaatat tattttgtat ttcagagagt atattttgga ataatgggta 300
 aatttgtgta ttcaggaaag tacttttcag aatacaaaaa tntaaacatc aatccagaat 360
 gtactttcgg aatgatgaga taggggtatt taggtataat aagtattcat gataataagt 420
 agagtgtact tagacaaaag gagtggatat agc 453

<210> 29578
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29578

tgtagtcga aactctatat attcataaca atgtattcta atgggtaagc aataatacaa 60
gcatttcctt ctcccttacc ttgttctgga ggccctagac ctggaattct agacatgttt 120
ccttgatcac aacaatgagc tatatagatt gatgcanaat aaacatttga aatgatcctt 180
ggcttcatgc aaaagatagc tatgttcaat ctcttccacg gttccaccta catatatgan 240
aatctcgaaa gggaaagatt taattgatac tagtgctggg agttggaatc aaaattntat 300
ccatgaatat ttcaataatc gagatgcaca aacacatact gtctatgcc aattgtttttt 360
gaaaatgagg ataatatggg gatttggaag atgagcaaag attttcctgt aaacatgcat 420
attatcatat tatggagaac atgtagaca attct 455

<210> 29579
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29579

agctntatgc ttgtcaattt tcaggaggca tctcggagag gatctttttt ggacatatatt 60
gcgcaaaatc tcttgaacta ngaagatggt gcccatcatc tttttgttct taatgaaagc 120
agtttgagtg tccctaataa tagtctcaag cactggggct atgtgggttag ccagaatttt 180
agatacaatc ttgtataaca aattacagca agatattggt ctaaaatggg taacctgcga 240
ggcctgatca tgcttaggaa taagcgcaat aatagcatgg ttgagctgct ttagaatttt 300
tccagttgta aagaattcat taaccgctgc agagatataa tcaccaatga tatctcaagc 360
cttcttgaag aataaaacat tgaaaccatc tggcctagga gcgttattgt atccatcaca 420

<210> 29580
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29580

tacaataggt agcatctttt cactagcatt ggttntgatg ctttatgcaa tgagtagtgc 60
tttcaaagaa atagtttcta agtgtaaaca cgtaacaaca accaaaggct aatgtggatg 120

gcaaaacaac tgtgaaaact gcatggaat agattagaat tatgaagaat cttctttcat 180
 accccagact gttcaataac aatactgttg taagtactag gtagtgaatc aaaaaatggg 240
 atcattatgt tgttttttat tcaacattgt cattccttca ctaacaatat tgttcaatac 300
 tatgtagatg tgacaaataa attaaagggt agcataggaa tggcagtgat gataatgcgg 360
 tgggaaacat angttgaaaa tggaaagaat aanaacaata ttgttgcac tttggtgaaa 420
 tgctcaaaca atggtgaaat actcttcaca ttcagcagca acaatg 466

<210> 29581
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 29581

agcttaaaca ttatactttg agcgtctcga tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttggcgtttg aattggctca gaggttcaaa attcaatttc gagcgtctcg 120
 atatatttcg ggactcaatc agacatccga gtacagagtt attgtcgttt gaactggctc 180
 ataggttcaa cattcaattg cgagcgtacc gatgtattac gtcaactgaat cagacatccg 240
 agtaaaaagt tatcgtcagt ggaatttgct ctgagcttca acattcgatg tcgagcgtct 300
 cgatatatta ctggactcaa tcagatatcc gagaaaaaac ttattgtcgt tggaatcgga 360
 tcgtacgttc aacattca 378

<210> 29582
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 29582

agctttaagc caattcatat gacaataact gtttactcgg atgtctgatt gagtcccgta 60
 ttataacgaa acgctcgaaa ttgaatgttg aagctttgag ccaattctaa cgataataac 120
 tttttactcg gatgtccgat tgagtctcgt aatatatcga cacgctcgaa attgaatggt 180
 gaagctctag gcctattcaa acaacaataa cgttttactc ggatgtccga ttcagtgcg 240
 taatatatcg ggacgctcga aattgaatgt tgaacctctg agccaactca aacgacaata 300
 actttatact cggatgtctg attgagtcgc gtattatata gagacgctcg aaattgaatg 360

ttgaacctct gagccaattc aaacgacaat aactttgtac tcggatgtct gattgagtcc 420
cataatatat cgagacgctc gaaattgaat g 451

<210> 29583
<211> 251
<212> DNA
<213> Glycine max

<400> 29583
taacaagaga aggcacatgg ataagaagaa agcgcgagca caacacgtct cgtatgatat 60
atttttaaaat gtaagaccta cataggtctt aatacaaaac cgatgggtcac agaattgaatg 120
ttaacgttaa catcgggtac ctcaagaacc aatgtactgg tatacgtaac atcgatttta 180
aaaataatgt aacgaacata tgtaacatcg ggtttcttca acccgatggt acgaacagat 240
ataacatccg t 251

<210> 29584
<211> 360
<212> DNA
<213> Glycine max

<400> 29584
tagagaagct agagcttagc tacacatacc tctctaatag ctaagctcac ctccttgaga 60
tgagaagcta gagcttatct acacaccccc tatcatagct aagctcacgc gcatgacaaa 120
aaagacatga aaataacata agaagtgctt attacataga caactcaaaa tgccctcgaaa 180
tacatggcta aaacctata ctactagaat ggcaaaatat aaggcctaga caaattatga 240
acatatctta gtatgtacaa agataagcgg gctcactatt agcccatggg ctcgatattct 300
accctaacgc tcatgagaac cctatggcct ttgcttggat ctgtagccca atctacttgg 360

<210> 29585
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29585
tatatatatt tgtagaggaa tntaataaac ttatactttt cttcttgact gtccgactca 60

tcaggaacga tgaatcctga ctaatcgaac atccgattaa aaagctattg ccaactgggaa 120
 tgagactcac ataatatcca gagaattcaa tcttaatggt aatatatgaa tcacttatat 180
 ctcatcactc tcttttaata agcttatatg tgttcaagtt aaaattccca aagagtataa 240
 ttccatattc gacacttgat cagtaataat agtatcctag cctagatttt ctccattcat 300
 aagctaataga tgcgttggtg actctcgttc tactggaacg tgatgcactc acgtctgatg 360
 tggaattaac tcgacccatt gtatctatat ctttcggtg catgacgggt gaccattcac 420
 acattcaaag aatca 435

<210> 29586
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 29586
 agctttgagc ttttcaaatg gtcataaata gtaactcgga ggtccgattc aggcgcatat 60
 tttatcgtga cgctcgaaat tgaacaacgg aagctctcaa gaatatcatt ggtcataact 120
 ttttaactcag aggtccgatt caagcgcata atatatcgag acgctcgaaa ttgaacaacg 180
 gaagctctca agaaatttaa atagtcataa cttttaactc ggagggtccga ttcaggcgca 240
 taatatatcg agacactcta aattgaacat cagacgctct agagagaatc aaatgggtcat 300
 aacttttaac tcggagggtcc gcatcaagcg cataatatat cgatac 346

<210> 29587
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29587

tgtanggtta aagtctcacg aatgtcatgt gtcatacaa caattgttag ccgtggctat 60
 acgagatatc ttgccaaaaca aagtctggtt agcgataact cgctgtgct ttttcttcca 120
 tgctatatgt atcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagttgg agatgtatct tcccccgct ttctttgaca tcatgattca 240
 cttgattgtg catctggtca gagaaatcaa atgttggtg cctgtatatc tacgggtggat 300
 gtacccgggt gagcgataca tgaagatctt aatagggtat acgaagaatc tatatcgctc 360

agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420
 cttagagaaa gctaaacctg ttgggctatc tgagtct 457

<210> 29588
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29588

ctctctacat atcatgcgcc gcactcggac atgcctgtga aaagatatgt tcataccaat 60
 tgctcgagag cttacgatgc ttaatttcga gcgtatcgat atattatatg cctgacccgg 120
 acctcacagc gaaaagttat gaccatacca atttcacgag agcttacgtt gtgcagttcc 180
 gagcgtatct atatgagatg cgccgcactc gaacatccca gtgaaatgat atgaccatgt 240
 gaattttctca agagcttacg ttgcgcaatt tcgagcctat cgacatgtta tgcgcccga 300
 ctggacatcc cagtgaagag atatgacat acgaatttca cgagagctta cgatgtgata 360
 ttcgagccta tcgacatatt atgc 384

<210> 29589
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29589

agcttatatc cagcaaggca caaggaacaa attaaatcaa gtottatcaa aatcagataa 60
 ttcatgggac ttctatcaat gcaaaatgtc ttccaaaaca aaaagctgac cttttggctg 120
 actacattgc atttatgaaa gatagacagt acatatttgt tgattcatgc agggacgcga 180
 ctaccttaat cttagattgt attatccatc aagctttctc tcangatgcc attggagatg 240
 cagtatacca tataaaggaa aataactagt cccaagacat acaccttctt gcatccatat 300
 ngaagctgat gagtgtttca ttgctgcata caattaagta tctaagcaat agtgggtgatt 360
 cagatgtaga agcacataac tttgatgggt tgatgatgat aatgatgatt tga 413

<210> 29590
 <211> 444
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29590

ntataagctn tatttaagcc atatctctag tcaatgtggg actaaattac caccottgag 60
ctgcaattaa ggcagccccc atagcaaccg caactgagct tggatagggg tgaccacaat 120
taagcttggc tttccaacaa ttaggcaatt ccctaactct tcttaccatt ttctccactc 180
tttcaccccc tttttcctcc tcttctctac acaccaacag acttttacta ctgttaggac 240
cattttttatc tttctttcct ctcccatgta tcttgatcag cagcccatca gaactcaatt 300
aaattaaaat acaactcang cagaacaaaa aatctgaata ttatttggac agtgaggtct 360
ctcccaagtt tgtctatggt tgactgctga acttatggag attaacataa atgatctggt 420
acagttgcga gggacacaca aagc 444

<210> 29591

<211> 416

<212> DNA

<213> Glycine max

<400> 29591

agcttgaagg ctaactggat gcattgggtca acttggtaac ccagctggcc ttgaatcaga 60
aatctgtacc tgtcgcaagg gtttgtgggt agtgctcctc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcaaagc aattatgacc 240
tctccagcaa cagatacaac cctagatgga ggaatcacc taacctcaga tgggtccagcc 300
ctcagcaaca acaacagcag cctgctcctt ccttcataa tgctgctggc ccaagcagac 360
catacattcc ttcaccaatc caacaacagc aacaacctca gatacagcca acagtt 416

<210> 29592

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29592

atgccgtgga gtttgacaca atgtcaatga acaacatatg taccatgtga gctgtatgag 60

cctgaggtat aatgccgaag tgaatcccct ttganaagcg gtcaacaacc acaaggagta 120
 caatcttgcc ctgaaaaaaaa ggaagaccaa tgacgaaatc aagggagagg tcttcccatg 180
 gtctgaatgg aactggaaga gggcacaaca agcccacaat atgtttcgtt tcatatttcg 240
 tgaattgaca ttcaatacaa ttagctacaa agttggcgac atcagctcgg agacctggcc 300
 aagttaaatt ctccgacaac catgttattg tctttgtgac tccaatatga ccccccattg 360
 gagtggcatg gtattcgatc aagagagatt gaatgagtgg aagatcatgg tgtaaccata 420
 ttctgccctt ctggagaatg agattcntaa taatggtgaa gtctggat 468

<210> 29593
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 29593
 agcttgagat gatgaattgt ttaatggtca accttcoctgc ttttatcgtt gaccacagag 60
 tggtagctgc agatatgtcg ggggggacaa gagaccttgg ggacgtcaag tggggtgcta 120
 ttgcccaaaa ccaagcttga ccaatcccg aaccaaccgg gcatagtcgg tcagctgaga 180
 acctgtgatg tacctaaaca agcgagctcc tggcagtc aaagataaaa gaacaatgac 240
 tccaaagcaa ggaggcttgt ggtggctggc cagctgagaa acttgagtga tttgtgggct 300
 gtggctctga taatcgagta ccacgggtgg gtaattgatt acacggctta agaatgaaga 360
 cagtgggcta agattgtctc tggtaatcga ttaccagcgg atgtatctaa cacc 414

<210> 29594
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29594

tcagaccana gcaactcana atctaggtat ctaaaacccc tcaatttttag tggatttcaa 60
 cgtttgagaa gtgaaaatga gaatgggact tggagcaaac tctcatctca aacaagtcta 120
 tatcatcaat ttaaactcgc taaaactggt tntacgacga atactctacc gaatcaaaat 180
 ttgactcctc aacacccaat tttaccctag aaatggctct tgttttcact ttggtcactc 240
 atattcctca tttgcacagt ctaagctttc tcataagtcc taaatgacat ttcaaactag 300

gattaactcc ctttaacctc caaataccac taaatccaga atttgccttc caactctcaa 360
 agcctcactc tttttttcac tcataacacc acattctcac tttctaacc taggttaact 420
 ctacccttca tctctagcag ttttcataa gcaatttcag cacataaaca tcacaag 477

<210> 29595
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29595

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 tcataagttt aaaaatagtt cacgcataag ttagtttata gaagctatct tatatagctt 120
 ctctaaaaga tgatagagtt tctacaaatt gatatgtaca taaattaatt tgagcttatg 180
 gagaaattca tctcattata tttcttttta tctttttctc ctaacagttc ttctagaaaa 240
 attcatccaa acacgtctca ttntaacagt taacataaac catcaagatt atatatactt 300
 tatcctctaa attatTTTTT actttgaagg agtcaagata aaagtcatta taatgcatgt 360
 gtaaagaana tactacaact catgcaagt catatatcga tatgtttagt atatgaaaat 420
 tacgaatc 428

<210> 29596
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29596

ntcttgagat aacttccttg agaatcttct ttgagataac ttccttgaga agctagagct 60
 tagctacaca caccctctca taactaagct cacctccttg agaagcttgc ttaagaagat 120
 tcttaaagaa tctagagctt agctacacac acctctctaa tagctaagct cacctccttg 180
 agatgagaag ctagagctta gctacacacc ccttataata gctaagctca cccctatgcc 240
 aaaaaatatg aaaatacaaa aaaagtcctt actacaaaga ctactctaaa tgccccaaaa 300
 tacaaggcta aaacctata ctactagaat gaccataata caaggccan acgaaggana 360
 aacctattct aatatttaca aagataagcg gactcact tagcccatgg gctcgaaatc 420

taccctaagg ctcattgagaa ccctanggcc ttcccttggga tctctggcac aatct 475

<210> 29597
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 29597

agctttgacc aaattcaaac gatgataact ttttactcgg atgtctgatt gagtcccgtg 60
 atatatacgag acgctcgaaa ttgaatgttg aagctctgac caaattcaaa cgatgataac 120
 tttttactcg gatgtctgat tgagtcccggt aatataatcga gacgctcgaa attgaatgtt 180
 gaagctctca gcaaattcaa acgataataa atttttactc ggatgtctga ttaagtcccg 240
 taatacatcg agacgctcga aattgaatgt tgaagctctc agcaaattca aacgacaata 300
 attttttttag tcagatgtct gattgagacc cgtaatatat cgagacgatc gaaattgaat 360
 tctgaagctc tgagctaatt caaacgacaa taacgctttg ctcggatgtc tgattgagtc 420
 ctg 423

<210> 29598
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29598

gacgcgacac ttaataactca gcttctatat aagctgaacc attttatcaa taaacacaag 60
 ttgagtttta ttcagaaaat tagagtttat ctcttttctc ttagtgagag tgattctcct 120
 aaattcttga gtgattcaag aacaccctgg ctatatcaaa ggactttcac aacctttgtg 180
 tgttgccctc gctggaaaaga gtgattcttt ccttctctatc atctccaccc ttgttctttc 240
 aaaccacaat tccagaaaat ccacctctgc ccaaaattat ctctgaccca taacttccat 300
 tttacacact caaattaagt gattcttgag cctaaattga atttcaaaac gatacctttc 360
 acctcgttct ggaatcacct cattnggagc cctgtagctt ccgttattgc catttctata 420
 tttctgtcca gccaccactt aacctacgtt ntaccatccc attcattcca tttatgccag 480
 aaaccacctt att 493

<210> 29599
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29599

cctcacacca atctacctcc tcacgcttct attccganan tetgacctcc gacactatgc 60
 accccccccc cccccccacg agtgagctga tgcaatagtc atcaggccaa tccactcgta 120
 ccgtagaccc tagatcccct gccgcatgca acttagaatt taacttgcac tccaatgcaa 180
 cgaaacatgc tatggctaca tattcacatt tgcttgtgag agcccatgct acactctgcg 240
 ctgacctatg cctgatactt cacatagaaa gaccgtggaa aacatcctcg aaatagtgtg 300
 catacatagg tcaatatcag gagcattaac tcccaacaca gcgagaatga tcgactccct 360
 aagtgaacgt atgatcacgc ggaacgccat ttgaatgcat gtatgtgcat aatgcaaaaa 420
 tctagccaat atgtgcaagt gtgagagaaa caatcaacgt cggtaaggca tatatactct 480
 gagtgcgcga acgcacatcg cgatacctca ctgttttagac atagctatct caaattatag 540
 cccacgcctt gaggtgacag ctctcg 566

<210> 29600
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29600

agcttatatg ttactctgag cactgaatan ggaagagaca tagggataac tatagtcact 60
 ccagggctga ttgagtcaga aatgtcgcaa gggaaagtcc tatccatgga atgcaagatg 120
 gtttttgatc aactaataag agatgtaagc tatctttact ttttgcacaa gacttggacg 180
 caatttttaa catatctttt gtgctgtttc ctagtcagaa ttggaacttc acttgtataa 240
 ataaaagatt agtattattc attgtaatat aagccaagtt cggtccttgc ctttcattgt 300
 aaatatttgg ttctccatcg gaatcggagt ccagcctgag agggaaacgga acggaacttg 360
 gttttctcct cacatggggg cctacagggt acacaccag ccaatacta 409

<210> 29601

<211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29601

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 cgatgagcgt gctgaccctt gcattccggc actatnaata ctcaacttgt atcataagag 120
 ccttatggga ctaaacttta tccactctaa ctatacttcc tgaacttcga tattegatgg 180
 atatgcctgc cagaatcagt tctggacgct taagtcggcg atctaagggg cacttatact 240
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 ttaccatata tagaagatca agaagtgcct ttgcctgaga tagactatat tacaaaactt 360
 aaccttggtc tccaatgcag tatacacgaa cagcataagc catgctaata aatgggtgcaa 420
 agctgacatg acaagctgtg acaatgccta ctgcacaccg ggggaaagtc agtctagtga 480
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<210> 29602
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29602

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 cagaaatgaa ccagcaaacc aaagttctga accatacttt agagcaatat ctcaaagtct 180
 tggtcagtga cacaccaact cgctgggttca actatctctc actggcagaa tggcggttata 240
 atacatccat tcattctgct acaagaatta ctncctttga agcaacttac ggcaagggtcc 300
 cttcttctat tctcggtact tgatggggatc gtccagcgta t 341

<210> 29603
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29603

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atatatataa tactagaaac tgtatccaat ctcttaagta tcgactaaga ctattcatta 180
ataactatga gaaaggatca taaccttatt cttaaaattc taaaaacatt aggactctag 240
ttctgatcat gtaagtatca ttcaaggagg cttttggctc ccactacttt gccaaagatt 300
gtgctggtta ggtttaagta aaaggttctg aaatttgggt agaaaagcat gttatctttt 360
ttaagggcac ttagttggat aggatggttc ttcagcctcc caataattnt tctatgctag 420
ctagttgctg atagatgggt taaaagattg aaatt 455

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<210>      29604
<211>      422
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      29604

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gaatcctana gagtctgctg gagtgactaa catcaaacgt acgcttatca caattgtctt 120
tgggcattnt ccatgagctc ctgggtccaat gagttttctt ctcaattgtg caagtacgaa 180
accttgagga ttatatattt ttttcaataa tcacaagcgt gtatggggtt cattccagaa 240
tcccactta taagcaaaat tagtcattcc ttgatccaca tgggctntat tgtgcttgta 300
acgtggtcag gggatatgagg gctatganag aaaggattag agaggctcan agagtgtttg 360
aaggttacat tgagtaagaa ccttgagagt cttgcttgta ctttttgtcc tttcaactct 420
tg 422

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<210>      29605
<211>      454
<212>      DNA
<213>      Glycine max

<400>      29605

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aacgtacgtt ggggcacttt gctaccccta gacgttgtat ctaagaagg gacaaattcc 180
 ccgggcccc gcattcctag attgcatttg tgtcatatgc attccatcat gcattcatcc 240
 atccccacca tgagatatcg gagttttgat ttgcaccagt ttttgtctca ctttagtaag 300
 catgggaaca aatcaaaccg gcaagagggt ctaccaagtc aagggttaaaa gcctagatac 360
 caccagcatc aaggaattag ggcggttgat gaaacctctc caaatgcaag ccttccgcaa 420
 gacttacgga aagatcttag agttgaccat agca 454

<210> 29606
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 29606

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 caaaaagtta ttgtcatttg aatttttgtt attcattttt tagcatcaag aattattaaa 120
 tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180
 tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaaga 240
 tattgtcatt tgaattttct tagagctttt gatttcaatt tcgagcatct agaattatta 300
 aaggactcaa tcggacatcc gagtaaatag ttatgggtcat ttgaatttgc ttagagttac 360
 tgggtctcaat ttcgtgcgtc tcgatatact ataggactca atcggac 407

<210> 29607
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29607

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 atcaagacgc tcgaaattga atacagaagc tcttagcaaa ttaaaacgac aataactttc 120
 tactcggatg tctgattggg tcacgtaatg tatcgagtca ctcgaaactg aatacagaag 180
 ctgagagaaa attcaaacga caatgacttt taactcggat atcccattga gtcccgtaat 240
 atatcgagac gttcgaaatt gaatgtagaa gctgtgagaa aattgtaacg ataataactt 300
 ttactcggga tgttcgattg aatcccgtaa tatatcaaga cgcttaaaat tgaacacaga 360

<211> 352
 <212> DNA
 <213> Glycine max

<400> 29610

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 ggttttggga caagtcgtcc ctttatactt gtcgaagtcc ggcactttga atttcggggg 180
 aataacaaca tcgggtacta aacaaagatc cgatcatgtct gcaaacggat agtcccaaaa 240
 tccttccaca gccctcaatc tttcctcaag gagatcgagc ttccttcttt cttcaattgc 300
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<210> 29611
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29611

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 cgaagaatga tgaagaacat ccacagaatt gatcacaaaa acatcatgga agcgttacag 120
 aagcgtctcg gcttggattt attccttctt tcttcttttc ctactaatt ttaagtgaaa 180
 actgaatatc caatgtgctg aaccccttcc cctcagtccc aaaagtcatt ntatagcaaa 240
 aatgagggag atggttgccg ccagcctgc ccaggcgagc tatgtagctt ccacctgaag 300
 caacctccct ctagaatgtt ccagatgggc ccaggactag atacaccnc cctgaatgga 360
 tcagttcacc cnccattttg tgttttggct gatttccttc gaacatcgtg aaatgtacga 420
 atacacgttg atagt 435

<210> 29612
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 29612

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attaacacaa tgtttgatgt gataaaccca cctataacca attgaaactt agcttgggga 180
 aaatcagtta gatacgaagt atgatttgct tcaagagtat gtaattcatc cttcatagct 240
 tttcttaata cagtttcata cttaacagct tatgcatatg ttttgggttc agaaatTTTT 300
 gaaatggcta aggtatatat ttgagatgac taggagacaa atgatgatag gacagaacag 360
 tggataagga atataaagca gtacctgaag tagaagacag gaacctgctg agttagaaga 420
 ttgcatgta 429

<210> 29613
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29613

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 tattttttct caaataaaaa aattaaaaac ttatngtatt ctttttattt ctcttttccc 120
 atctatctct ttcttattgc tcattggctt ctgttctttt cttcctgtca aatactataa 180
 ctaccacatt gaacctnt ntacactaaa gcttctgttt agtctctca catacaaagt 240
 ttttttttgt cttctctctc agatatattt gttcctaate ttatcttttt cttatatgcg 300
 aactcatcag ctntaacatt cttatcttat ctacacactt gaggttatat ttatagtaat 360
 taatacaact tatattntat ctttgattag cctgtgc 397

<210> 29614
 <211> 420
 <212> DNA
 <213> Glycine max
 <400> 29614

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 ttgtagaaac aagacttgct cattatttaa ttcttttaca cttccgagca tacaacacta 120
 acctgtgtg tatttgataa gctacaaaaa tgttgcttaa acatgtcact gtcttcttca 180
 gatggtagac ttcccaaatt gccctcagta gttgtttctg acacacttcc agattcactt 240
 aaatacaact gctctgcttt actctcagaa acttcttcag aacaccaaga aacatcatta 300

ttgttacagc cagcatgttc tggagcaaca cccctctttt cattcttgc aaggttatta 360
cgcccaaagg agttctggtc ctcacaaatc acagccttat gttgtcctac aataagccat 420

<210> 29615
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29615

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caatggcctg cagtcgttca aagcagttca atgagttctg caagaaaata ggcacaaaa 120
ggcacataat agtccctcac acaccacaac aaaatgggtt ggcagaaaga atgaataaga 180
ccattttgga aagagtggag tgcataactt ctaatgcatg actgccaaag accttctggg 240
gagatactgc tacaccacag catatttgat aatagatgtc catcatcagc cttatgtttc 300
aagacactaa tggaagcttg gagcgggtgaa ccacctgatt attcatgatt aaaggcgttc 360
tgatcactgg ctttcgctca tgtaaataa cgaatgctgg atgcaagggtg tataaagtga 420
gtgttca 427

<210> 29616
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29616

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gaaaaaacta agagcttaga ttgtatatcc tcctatgaga cgtttaagaa gtactcaatg 120
agccaaccaa acaacaaatc ttttgattat tttagagcta gtagtgactt actaggacaa 180
aagatattga gttggttaag tttgcgttgc atgagccaag agtgatagtg aaaaatactt 240
gtaattagtg aaatttggtg gtttatcaag aactggacgt aatctcagtg gtaaagacga 300
accgatataa aacttcatgt gtctgatata tatctctttg tgcttatcta gtctt 355

<210> 29617
<211> 475
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29617

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tttttgttgt tgttctggac gtgtattttg atgttaatat ttatcacctt ttcttgctca 120
tttattcttt gtttttgggt cattatttat ccattgtttt catccagatg tatatttaat 180
ccagttaaaa ttfcagctca aaacttaaag tattcaaacc atgggtggagt taagaagaaa 240
gtgtgccaaa attgacagca accaaaattt caacctagaa ataaagagta gtgtttatat 300
tgtttaaggc ttagatagtt acaatttgtg gttgattaag atcaattgtc ttgaataaaa 360
caaactgata gagcttaaga cttattttga ttcacaaatc caggcacaac tcaatttctt 420
cataggcatc atataggana cttanaaaac aaaaaagttc aacaaaacta cttct 475

<210> 29618

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29618

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gtggatgacg cctcctctca cctcttctcc ttgtcttcc actgcatctc catgggtggaa 120
aatcaccatt aaaggacctc attgaagctc anaccaccaa aagtgagtgt ttgttgggga 180
accttgaatg tggatcatca aacactctta ggattcgcct agtttacatt tcttgcttac 240
tttcatagct tatttccttt atcttccatt gtcaaaccgc ctagatagct ttctttttaa 300
ccaattagtt ttttccctta tctntcagac ctcttttagt gtttattttg gctagtttca 360
accatagtta cttttacctt ntgttttcaa acctccaata agaaagaacc acaactt 417

<210> 29619

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29619

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gcatgaaggg tctatatata tgtgtgtcta actttgaaaa gcaagaaaga gatattctaa 120
gagaacttca ttgccaaatg ttctctcaac aactcttggg caaacactta caaatctatt 180
gagagttcat ccaggaattt caatttgtat catccactct aaaggagaga aatctttttg 240
tttatctcan aagtcagttg taatcaagag actggttgtc tcttgaattg tgagtatcct 300
gaacacaaga gaaagggatt cctcgggtgt tcagaagttg taaaaaggat ttttacaag 360
ttagtgaaaa tctcaagtgg gttgcttgag gattagatgt angcacagga agtggctgaa 420
ccagtataaa tcgagtntgc atttctctct tccttcatct cat 463

<210> 29620
<211> 422
<212> DNA
<213> Glycine max

<400> 29620
agcttcaca acatccaaga gaaacaacat tcaaacagca caagctatca cagccaagca 60
aaacagagta aaggcagaaa actctgctca acacatcaac caaaatcaca gctttttctca 120
cttaaagacc acagtaacaa ttccttcgat ccaattcgtt aaccgttgga tcgactccaa 180
aattttactg gaagtctata gtgcataagc ctacattgta accgttgga tctactagaa 240
aacatccaga actcattctg tactactctt tccacagcca accacacaca agcattttct 300
gcaccaagct aaaatcctgc tgcacctatt atgacagcaa aattctgcat aagtgcagat 360
ttcgaacatc acacttcccc tcatccaatc ttgctcagat cagatcctac aagtcccaaa 420
tc 422

<210> 29621
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29621

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atggatgaga actggaaagt aactaccaag gaataaggat ataggagggg gccataaaga 120
gagaagtgag agtgagacgc cataaagtgt gtaaaatttt tatatagtca gtatatgttt 180

gataataagt tctttgaaag ttctactaac aagaatccag aaataaatta tttttggtaa 240
 ttaacaaagt ataaacaaca attattcagg tcaagacaat taaaatatct gcaagagcag 300
 catatacctc aactctaagt atcagacacg atcacatact tatectatta catggaccgt 360
 gtaattctgg aatcttcttt ttagatntta ccgttattat tttgctctca ttagctgtgc 420
 attgttcttg cacat 435

<210> 29622
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 29622

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 tatatcaatt gacttttagga ctgatctgtg ctctttgcac ttttccctt tttttaacgt 120
 tcttgaataa aatttggctt cttaataatt tggacaacat aagtgttaat agatttataa 180
 acttaaaacta atgtgatgtt agaaatcaat taagaaccac atactaggat gggcattaga 240
 cacctaacga ccattctga gaattaatgg atgcttgggg gttattagag accctaaact 300
 cacgaaatta tgcgacaaca cgaattttgt tatgtcataa actaagtga caagtgtgta 360
 gttttcac 368

<210> 29623
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29623

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 tatccacatg ctctctctcc ctcaatgaat taaggcaacc cctctccctt cttcatcca 120
 agatgcttgt cgagctctcc aagtcccagg actcccctgc cggcgacagc accaccaccg 180
 tcatcgatcat catcggcgcc ctctcaagc agtgctnca cttctctctc cagcacatcc 240
 accccaccat cgtcactgac gccctccaca aggetgccat caaggctgtc gatgttctca 300
 ttgccatggc tgtctctgtc aagctctcca accgtgactc cctcgtgaag tccactcana 360
 tntaatggat aggggtaata tgaatangta acccaattga aataagaaac tacccaatta 420

natccaatga actactacna atatgcatca acat

454

<210> 29624
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29624

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cacagttttt ctcccatggt taagttgttt gtaacttgta ttttcttcac agatggggca 120
tgcatgatga cccttaacac tgtaaccgct gagattccca tatgctggaa agtcattaat 180
ggtaaaaaaa agcattgcac gcatttcaaa ggtctccttg cgaaacgcat canacactac 240
aaccctcttg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
gtcatttcct ggctgtcttg ggcccgatat catcatattc agcgtcatgt gttttcgctt 360
catgcac 367

<210> 29625
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29625

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cagcgggttc aacacctgaa tactgtattt ggaaagaccc aaaagaagga taaaagtaag 120
agttgcatat ggaaaaagag gtccattttc tttgatcttc tgtactagtc tgatctagat 180
gttagacatt gtattgatgt tatgcatgct gagaaaaatg tatgtgacag tgtgattggc 240
acgctcctta acattcaagg caagatgaag gatggcttga ataccgtca agatctagct 300
aatacaggga tacaatcata gttgcatcca aggtctgatg ggaagaaaat ttacttgccc 360
ccagcttgcc atactttgtc caaaaaggag aagatcccgt tttgtcagtt tcttcgctcg 420
gtgaagggtc cacaaggata ctcttc 446

<210> 29626
<211> 421

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29626

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tattcaatgg caaaacctcc ctccaagtga aaataattgg gaatctgtgg ctaaattaca 120
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tatgcataag cataagccac acatcaccaa ggtgtacact cgcaaacaac gagcaaaaga 240
agcaataacc atggaccacc agcagcaagg cgcacaacac ccaaggggtg caaaccaccc 300
aatagttaca acccatccaa aggggtgtaa ccaccttaata gttacgattc acccaaagaa 360
tgcaatgtca gaagatgcca atcaagggga catgaccctt gngaacagtc acaatcaacc 420
g 421

<210> 29627
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29627

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acagaagaac atagaccaca gactctttca acagggtgtag attttttatt catggcaagc 120
tgagttacta ggttgaccaa ggcatacaagt tttccctcaa gctttttact aggttgacca 180
agccatcaac tttccctca agctttttat tttcacttga atttgaaatt gaattttgga 240
gacaaatttt cactaattat gattagtga ttttagctat gggtcagccc accaatccaa 300
gatcaattcc aagattctcc actaagtgtg cttaggtgtc atgaggcatg taaagcatga 360
aggacatgca caaagtgtga ctatatgatg tggcaatggn gtgtagcaag caaatgatca 420
cctccccctc taatanntta atggattggt cttctcccaa t 461

<210> 29628
<211> 380
<212> DNA
<213> Glycine max

<400> 29628

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tgaagctctg accatcatca aacgacaata accttttact acgatgtatg atcgagagcc 120
gtaacacatc gagacccttg aaaatgactt gagaagctct cagcatattc taacgacaat 180
aacaatttac tcggatgtcg gatagagtca cgcatacatc cggacgctcc atattgaatg 240
ttgaatgttt tagcatattc ataccacaat aactttctac tcagatgtcc gatgactccg 300
gacatatcga aagctgcaat taaatgtcga agctctgatg atttcaacga caatactatt 360
actcggatgc tgaatgaccg 380

<210> 29629
<211> 351
<212> DNA
<213> Glycine max

<400> 29629
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gagttttaag ttattgtcgg tcgaatttgc tcagagcttc cgtattcaat tctcaagagt 120
actcgatatg ttacaggact caatcacaca tccgagtcaa aactatcgt cgcttgaatt 180
agctcatagc atcaatattc tatgtcgagc ctgccgatat attacgggac tcaatcagac 240
atccgagtaa aaagttgttg tcgatagaga gttctcaaag ctataacagt caatcccgag 300
cgtcttgaca gagtactgga ctcaatcaga catgcgagta aaaagggtatt g 351

<210> 29630
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29630

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tctccaggta ccactctgtg gtcaacaaat aaaagtagga agactgactc ttccatgctt 120
tctcacacca agcttattgg attatggggc acccatcata tgtggtacta ggtggcgatc 180
gggcgatggc accaatcaac tatcccatTT ccacaagcca ggcataagca caccatcccc 240
agttgtgcac ctttaaattt agctcatgtg cacatacgta gccttctcct cgttctctc 300

agccccgggtc cccatcaacc ccaccaagct ttcacaatat ccaaacaatt caattccatt 360
 tgtcatgaaa ctaccttaaa caaagaataa cagagtggag gcagaaatct ttgcacaaga 420
 ttcattcaaa ttocatagaa gttttcctac cctcata 457

<210> 29631
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 29631

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 aatacattga tctaaacata agtgaaaagc ttaaggctct atctagctaa aaaaagacag 120
 acaaaataat gaactcgttc cattaactaa aattcaatta cgagataaag catagatacg 180
 aaagattatt acatagatta tgtacttggc taaacttaaa ggagtgttgt tcgccggcga 240
 gctggagggt gccgctgacg aagacgatca tggcggagtt gacagcggac ggctgggaat 300
 cgacgggtgt gatggagtgc tggcactgtt 330

<210> 29632
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29632

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 cttatgcctt gttgcactcg actgtaacac ggtaacttaa gcatatgcgc ctaaccacct 120
 atgaattgcc gaatctccac tcaaacagaa tgagactaat actctcacat aggtcaatat 180
 aggggccatt aatatgtgat gatgtgaaat gagatgaaca tgtgtaagtg tgatagccat 240
 gatgatttga cgcgcgagaa ggatgtacta taacaatgat cgtgtaacat gacatgcaat 300
 ttcattgagat ataaatgatg gcgatgatca gactagtaat gaatctaatt aaagtataca 360
 aagaattatg gaatacaatg tgacagagta agaaaattcc ttcgacgtga gtttgactag 420
 attatatgcg taataaactt gtactctatt agcactctct agtattagat taacatagct 480
 atagctactc tacatttata actattcatc t 511

<210> 29633
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29633

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agctntcatt gttcaatttc gagcatctgg atatattatg cgcttgaatc ggaccttcga 60
gttgaaagtt atgaccatnt gaatttcacg agagcttccg tggttcaatt ttcagcgtat 120
cgatatatta tgcacctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180
cgagagcttt cgttggtcaa tatcgagcgt ctcgatatag tatgcgccgg aatcggacct 240
ctgagtmana agtaatgacc atttgtattg ctcaaaagct ttcattgttc aatttcgagc 300
gtcttgatat attacgcgcc tgaatcggac ctctagttg aaagatatga ccatttgaat 360
ttctcgagaa gcttcgttgg tcaatatcga gcgtctcgat ata 403
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<210> 29634
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29634

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tctaaactnt gtacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60
tcttaagaag gggggggttg aattaagata ttcgaaactn tntcttctaa ttaaaaatct 120
atcttacttt gtacttaagt tatgaattcc cttaaagaca atcttcttaa atattaattc 180
aatgaagca acttgaatat gaatataaag caataataaa taaaggagat taagggaaga 240
gaaaatgcaa actcagtttt ataactggtc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagagt tccactaact tgtaaatcc ttttacaagt tctaaacaca 360
caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtctctt 420
aatcccttag agaatgagaa gaa 443
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<210> 29635
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 29635

gcttgccctt tgagaattat gaacacacac acacagataa ttttctagaa ttccaaagca 60
 acgacaccac agcgcatatt tcgagatata ggctctggag gcagcaagag gagtacctct 120
 gcagagaacc ctatggtact atacatagag agagattagt gagctgcaca gtgatagtga 180
 gaagctgaga atatgaggag ggatccccct tcttatgtaa tgaaca 226

<210> 29636
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 29636

acagactcgc agcagctgaa tcattcctct atagcatcct taaagctgct ccctcagctt 60
 taagcgcttg aatgccatgc tatacaggct gaactatgac tcacagattc aagaaatcaa 120
 tgaatctctg ctgaccattg aactgtgagt gaacgagctt aaaagcaaatt gacctcttgt 180
 gaagcttcta gaagcaatgc ttaatgcagg aaatcgaatg aatgcacgaa ctgcaagagg 240
 caaagctcaa gcttttttca atgtggcttc tctaaggaag ctctctgatg tcaagaccac 300
 caacgg 306

<210> 29637
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 29637

taatcattcc agtccactca aggcatatca tatgagcact tcaagttcac tccacagaac 60
 atctacatgt catgaactac aatccacacg cacgtcgaat catctatcaa tccgatgcag 120
 tttcacgtgc tgcaaacatt gcttttagta tcagcgatca acacttaaac aacagaaatt 180
 taaatgactg aaatctaagg actaacaag cagaaactag ataattgaca agaactatat 240
 aactgataaa ctagattggt catgatttgc aaaattctca ttactatgca gaattgagaa 300
 ctactgatca tctgtagct gatcgataga atgctcgctc agatctatca ctgaagaagc 360
 tggaggagac tgtgaactag actactctta cttcaatgct agcgcatatg gcaacgggat 420
 tctatatatc ccgg 434

tcacccactc aagtgtatca cacaattatt gctctttctc taatgaaaca ctcttgccctt 120
 taaccactct aattcccctg agttcttacy caattcaaga gattatggcc acaacaaaga 180
 acaattcacc aatatgtgt 199

<210> 29643
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29643

tgttntgagt atcatgtgat cctttggcat catcaaaaca tcagcttaat cctttgtcta 60
 caatctctcc ctttttgatg atgacaagcc ctgaaatcaa cacaaactat attcaacatg 120
 atagcccgtt cacacaaccc ttactcgcg c tatcttgtgc catgtatgcc taatgataaa 180
 cttctaatacg atttctaacc caagtcccaa gtgctctcaa gatctctccc cctttggcaa 240
 catcaacaag aactaagcag cacaatcaaa attcaaacag atcaaacaat aaaccataat 300
 acatccagac attgtcataa ccataccaat cagagtcaag aaacataata tacctgcaag 360
 attaccatat ctaagccata ataagcccaa ta 392

<210> 29644
 <211> 59
 <212> DNA
 <213> Glycine max
 <400> 29644

cgacccggag acctatacat ccgacactgc acgcatgcaa gtttgtgcat tcagtatcc 59

<210> 29645
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 29645

toggacaatg atttctgtcc acaagttagt catatacagc gactttcaaa ctcccctata 60
 tttaacaatta tgcttgcctt caagcaaaga aagaacagtt cacttgcctt cagtgacaa 120
 agacagaggc cattcaaaag ataatggagg ttgattcatc aaggacatca accatatgaa 180
 ctgaatatca tggaatgctt aaatcaacca ctactcaca acatgcagca ttccaaatat 240

aggagcacac gtattatagt cacagctgaa ataagctagt aagcatgata gaaatcaatg 300
aaggatcatc atccaaaatc tcacagtcac tgtttcactc aaactcaagt gttgaagctt 360
attccatcat aaacaaccaa cacaagttac aacctttgca tttaatcttc tatcatataa 420
ctatgaacac a 431

<210> 29646
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29646

tagcttactg ntgctgcccc accaagcacc acaaaatatg ttcttaccat gctcttgcat 60
gcgagccctc caggctttcg tgaatagaat ctgcgagaat ctccattgga tgattgtacc 120
cgagcactat ctatcagaat aacggtaacc agcaacgtga attacgcttt aggagaggt 180
cataactcta gagcgagtac tatagctacg acttgtggct cctcgtatgg aacttaaaag 240
ctaggatcgt cgataatctt taaataggag agcacctcta ctctcatag acgatcgttc 300
catcattctt gagaactgcc aatgaggcca ttaagaatgc ccctaagtta tatactttca 360
ctcgccgact cccccgcct tgaggaatct tggctgacca tcaacg 406

<210> 29647
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29647

cgcccagctc tctcatgcga gcanggttgc tacctccata ttcacagcc ttatggaagg 60
cccaacaggg ccatatagat atctacacac ccctgcatac tacatgcacc accttcctat 120
cttttatctg aatacttatt ccgtaacggc acgaaactct atgaatatcg tcccataacc 180
tatttttctt acgcaaggat acgaattctt actgatgatg tatccactct aacttagctc 240
tagaacaagt tacggaaact catggatcgc gcacaaacat atattattca attcccgga 300
cattagggaa tttcacgaat cactcacgct tgcttacatt tagattctaa gacagcacgc 360
gacttcattt attgcacgct actcaacaaa taatcaccgg acgaaattag cgtatgacat 420

ccaccaccac catgtgcatt accacct

447

<210> 29648
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29648

agctttataa tcgcgggtct gggagacgaa ggtcaagtgg tcgcgatata cgaagatgat 60
 gttccgagta cattggattt ggtacgacca tgccttcctg atttccaact gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acgagcataa tgtaaacctt tacggtttta 180
 aaagctctat agttaggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt 240
 ttgttttgaa ttataatac aaggatcttt cttcatctgt tcctacgtct ctacccattc 300
 tcattcattt gcctgtttac ttctttntct gataatggca gatccgatga cgagtcccc 360
 gaaggtacta atacctgcga cccgcctatc gacttcgagc aagatattag tcatacggaa 420
 gatca 425

<210> 29649
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29649

gacttgagtc atcaagagat tatanatatg tgaccatggc atgagtttca tanaaaatca 60
 ataatacaata atctatcttt caatcttctc tcaacatcat tcaatatctt tcaactctgt 120
 ctaccaaatt ttatgattct ttntctcttc atcttttcta aaagtcttgt tcaatacttt 180
 ctctttcaag aaaagttctt tgatcaaaaa cttgtgcttt tcattctttt cattctcttc 240
 tccctttgcc aaaagaacga aggactnaac cgcctgaatt ctttgtgtct ctcttctccc 300
 ttacaaaaga ttcanaggac taaccgcctg agaattcttt tgattcttcc cttccccctta 360
 nacaaaagat ctcaaaggaa ataaccgttg agatatcttt tgtttcccca tacatagatt 420
 canaggacta accgcctgag aattctttgt cccaacacat tg 462

<210> 29650
<211> 588
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29650

tactttacat tctatattaa tttactcacg tttttattgt ttataactat acanantnnn 60
acnnnnnnnt cgcgtgaccc gttgttgaca ccttgctatt acgtgaacta tanaatactc 120
aagcttctgc tgcagagaat catagcctct acgactatta acgcgaggga ttgtgttact 180
gctactggat ggcttgagcc ttcttgctca catcatgaga aaactaaccg acaatgatag 240
acatgggtat attgacgtat cacagcatga tgattaatat tagatataac tcatatggta 300
atgatcatat ctactaacia tgggtctctac gattctgtcc taaacggact cactttacct 360
tgctgatgcc gtatcactca tagacagcgt cctccacact gttgtgatca gctggaatga 420
ctcattttct cgtgagggtt gattaatact tcgtgcatat ctgcaacaca accatgcagt 480
agctggctta gcatactact atcggatgcc tctcagatgt caaatactgc ctgacatcat 540
cagatacggg ttattaggat aataatgatt atctggtagt ggtgacag 588

<210> 29651
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29651

agcttggaag ctttgcttcc acaaacaaga ccttagaggc gcaccgggtgg ccgcatgaa 60
acttttcatc acagttgaag aaaagggtcac gttcccgcgc catagccaac tctccaatg 120
acaagctctn gatcaggaga ggtggagaaa gttgcaacgg aggtgacaac aaaagtgaag 180
gggataaagg caccactagc aatggaactt ctctcttga agacacgtta atctacggc 240
ttgaaccaa gtcagagggt gcaagggttg aacctcgcan agaattctca gagtcaagcc 300
cgagataaag caacttanag gaatgggtgg ggaaggccaa tgggtcggct ggcaaggctc 360
tcaaacttga agaggtgaagc attgatggta ctacact 397

<210> 29652
<211> 468

<212> DNA
 <213> Glycine max

<400> 29652

gcttgtgttg cttccacgag tgagagaaga tataaggaag aacaaacttc tgcattttgc 60
 tttatatcaa actctgaaaa aggctttgta caaacctgct gcattcttta agggcatact 120
 gttttcacta tgcgaggtat tttgcttggt tctatgtag tttttgacat tccaaattaa 180
 taattggtgg atattttctt aggttctatt tgtggcatta tattaattct tcaattatgg 240
 tatattttgc tctttcatat aataatattt caccatcct ttacggtgag ctgcatctga 300
 tgtttcttta ttataattgc tggaatatag aggggggaaa ttaactatga accgtgtttt 360
 gcaaaatgga aaatatggaa taacatgtat atggaatggt aaatgaacat gagacagtga 420
 ccagttatgt ttatgacaca ttgtgaatga attgtttgtc gtcattggg 468

<210> 29653
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 29653

aatacacgca cagaaccgga tcgccacatg cgagctatca tcgtacttag agatggcaac 60
 ttgttttatt ccgcgggtct tagctttgaa cgtggggata agcttctgaa tggcaaaacg 120
 cccctccttc cgttatcaat gttatatatt gaggaccagt gtcaccaacg actaactacc 180
 ttttttttgc ctagattatc tacatcgccc ataaacttat cagacaacat cacactgata 240
 tgtcaaagac catagattct aagacacact tgtttccgtt atgactcccg tgacggacca 300
 tactctgatg ctcttccac tactgatgca tagatccaga cccccaata gatagcatct 360
 acg 363

<210> 29654
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29654

tattcggaca acatcgtatt tatntctcaa aacatattga cgtatataat tgtagaatta 60

tatannnnnn naagagtgat acctggtttg acccattgaa aacctcaact agnnacaatg 120
 tgccnaccta acagaagcga tcttatagac agtttcagtc atgatgttgt gccatcaagc 180
 cttggcggca gctaaagaag gcccgtaatt gctatgttgc gacaggtgtt cattctggaa 240
 taaagcaaag cacgctctta tgtggacaga ggcgattcca acgtgactct tgctgaagat 300
 gcgtgacgtg tcaagtgtgc gatcatctct agacggaaaa cggccctgaa tggcgtcact 360
 gagaagggtgc ggagagttag ctgtacatat ggatggcaga gctattttga aaggatttga 420
 tgcacacaac agacgtcngg cactgctgtc atacaggcca ataatgggtgt ggtacagata 480
 cactgaaaga agtagccaca aatgatctgc gaggacatgg taacatcgtg cgaggcagaa 540
 ccgatgaatt cttgagcacg 560

<210> 29655
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29655
 aaggctaagt tttcatgttg ctctcctat ctctaacaat attttcatgg cacaaaacat 60
 atatatatat atatatatat atatatatat atatatatat atatatatat 120
 atatatatat atatatatat atatattaaa gtgagttata ttattttcaa ttaaaagggg 180
 ggtctacaac aattaaatta aaattgtatc aaaagaaatt actactaagc aattaaaatc 240
 gcacaaaact ttcttttagtg tattattgta ttaagtatat tattatagtg tgtctataac 300
 atgttgatca acatcgcggg aggatacaag atatatacaa taatgtgtat aatacaagca 360
 cgccaagaga atattatttc gagtacaatt cacgttctat aatagagcgc actatatgcg 420

<210> 29656
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 29656
 atctgacgaa gttgaggcag cattacacat tgatctctaa gtacactaca tgaaagcggg 60
 aacattaatt ccccgacaat caagtatgca ctaagagaac aactagaaat gcattgcttc 120
 aaaatttcat caccattcaa caaaataatg ttaaccttaa cacatgaatc taccatataa 180

atatgactct tgccaaactg tccaaatgga caagtcaata ttcaatacaa tgattaatgc 240
 aaactatcca caagaataat tgaattcaat ctcaaagag aatctaaggt tcaatcatga 300
 tgaacaaaag ctgtatataa agcatagtagc attaatgaca gacaacaacg tacaaaaaca 360
 tttgtaacat acataagaat cataagttga tggaaaactg tcgtacttgt gatgatgatt 420
 agtatagtgt ccaacaatga attatgtgat ca 452

<210> 29657
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29657

agccacacca tagaatcctt actatgcctc tggataggaa tgaagcttat ttctccata 60
 aactgcacag ctatatcatt ttcatgatca aatagattcc tctccacct gagatccac 120
 tcccagctat cattattaaa gttaccatg ctagagatga gggaaacttg ctgtctacta 180
 atccgaaaaa gttgattata tttctgctca agagtgtagt ctgtccctag ccacttatct 240
 gtccaaaatt tgattctttc cccactccca accttccagg tcaaagtctg attgaaaata 300
 ttaggatccg actgatgata tagctntcta atatccctcc accaatggga atgaccctc 360
 ttgttagagc caagctggaa ttatgaccaa tccccatatt tagaaattac gactcttacc 420

<210> 29658
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29658

agcttccatc aagtggtaat cagagcacia gagcttcaac taggtgctcc ttanacctcc 60
 attaattntt tttggtttac cttctcttcc attgttggtt cttcattntt tctccatgt 120
 atctcctcac atgtcttggt gtaaatgctt ttaacatgat tcttttagagt ttccaccgat 180
 taaacttgct atataagcta gatttgattt tctatgggtt aaatttcttg ttcttggtct 240
 tgaaccatga attgtgttga gtttaagttc ctttgagttt tgtcttggtt atttttgtgg 300
 ctgaaaccta naccataaaa ttcttataaa aatattaaag tagaagaaaa cctcanaaat 360

ctagagtgcac ttgttcactt attgttgttt gtcatagaag tcatgtctag tcat 414

<210> 29659
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29659

ctagtgtang gtttagaggt atatgttggt gtcgtttgtc atgaccttgt agcaagaata 60
 aatganagaa actgttcagg ttctcgaana agaattctca aggacaataa atatttaaag 120
 gattttcaat taacagatta agtcaaatga ctcttggtct tcacaactca ttttttactc 180
 tcgagaaagc caacttttaa gaacaaaaac atgctaaacg aatatgtatg acaatttaat 240
 gacttatgca aaatgcaatg cgtgaatata ataagtggta aatacaggaa tgatatgttc 300
 attatgatgc catgaagaga tgcgatgatg gtgttgcaac ctacccttcg gcgggagggc 360
 gacgcgagac tcacgggagc atcttccaag gaaggaaaac gcgcggagtc gccacccaac 420
 gttattcgag gaaaatgtc 439

<210> 29660
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29660

tattcgcacc aacaatactc acagcacact acgttcaaca ttccgcaccc cccccagcga 60
 gtgagcttgg acatagcaac cgacaacccc acgtccgcga gccacttaga ccgcactgca 120
 tttcctattc ataaantact tacaggcgca cctgcggtcg ccgagaaact ttacatctga 180
 tctgaacaca aggatacgtt cctgccgaca aaccataatc atgcaatgac acgctctaga 240
 taatgagagg tggacaacgg tgcaacggct gtgaccacct aaactaccgt tatataagaa 300
 cccacttcac gagctactac tctccgtga aaacacgata aattgttggt tcgcaccact 360
 agacagaggt tagaacgtat gaaactcctc actaaactca ttatcgcacc acatatacag 420
 cttcacaac gagtggaggt ggaaagccat tgatgttgta gagcaggaat ataactaga 480
 aacagtagac tagaaatata caacaggcaa atcttaacaa agctcttttag ggagccg 537

<210> 29661
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 29661

tattcttcaa ggtcatactt cctaatagaca ttcatagagat aaattatcat aacgcgcaca 60
 tgtcatgtag ttaaggaaac aacaaaagaa aaagattgtc aataacaagt caaaatatgc 120
 acaaaaaaag aagtttctat tagtacctta gaaaccataa atgcacacaa attgtgagaa 180
 ggtaaacaat tgcgaatact gactatggga taaatagaat aaagaagtaa taagcaaatt 240
 agagaggtca caatgcacta ctattagacg ctcatctgag actaagaatc aagcacaaaa 300
 caatacccaa aacttcaaac actttaatca agcatattac agtggtcaca aactcacaat 360
 gcatcgtcac cacatatagt aagttactat cactaagaag agaaccgatt aatggccaaa 420
 aatggttgtc cca 433

<210> 29662
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29662

tatctagata tagtaaactcg nggggaacat gaatatgaaa acaattctaa cttctaattc 60
 ataagttcgt gcaatgttca cagaaacaaa catataaatg gccatgtagg aggagtattg 120
 cctttgcaag catggccatt acaagtgaca tgtttgata agtgttctcc tgttttatga 180
 agggttaggt aaagtctcct acttaacatg aaagtattcc aagttttaat ggagaagtca 240
 actaagcaaa cacattatca attaaaggga tgacaccaac aatgagtctg agcttatagg 300
 taatgtcagc gtcactactt ttgacttact ttaagatcaa tacccttat atgtaattcg 360
 ataataagat aacttattca ttatggacaa canaatcaat taagaataac ttcacatata 420
 aaataccaat tcg 433

<210> 29663
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29663

agcttggagt tgcaatagt ctaagggttc tggttttagt tactccatat tgtcgacaat 60
 taacttgggg tcctgtcttc atgattttta agtttaaatgt gctaagttgt ttcaagtttg 120
 gtctttggca agtgtgtaca aagatattca tgacccgcta attaatagga aagattcaac 180
 acctatagga tatgaagaaa ctttttagcgt attgctaaat tgctgatttc ttaatatgat 240
 gaaagactaa ctcaatgatg tctactccaa tatcaatgat atagagtctt gggaaattga 300
 gggtttttgc ttaaaaaaat tcanatactg aaagttttat ttccttaata tcttggttct 360
 ataaagattc caataaacia gaagaaaaga gacacttatt ttcanaaat tatattg 417

<210> 29664
 <211> 104
 <212> DNA
 <213> Glycine max

<400> 29664
 tggagatgca atagtgtca cgtttctgtg tttaggtact tcattttgtg gacacattac 60
 ttggggctct ggttttatga tatttaaatt taatgtgcct acct 104

<210> 29665
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 29665
 agcttgcaact gtcaacttag attgcttaaa atattgccgt gcttggagaa cctatagctc 60
 aacagatgag tcacgctcat cttgcttact ggagctgggc tatctaactt cccatattgc 120
 atcatatgtg ctgtagccac tctgaactac ttcgacattg atgacactga cagcacctgt 180
 ccgatagcta gactagatgc tcttcactat gccgcaataa cagagatcac ctgctgaaac 240
 taagatgcta gcaagaccta tattggtttg agaattaaca tgaattctta tggagaggat 300
 aactctaact gttattcgtc ataaagcatt tgatgctcat tatctggcat tgcctac 357

<210> 29666
 <211> 77
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29666

ggaagtcaaa gccgtggact tgatgaatac cttaagctac cagccttgct ntaacttggt 60

gatggaaccg acaacat 77

<210> 29667

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29667

tgtgactctt ggcaatttct ttaacaaaac cagtcactta naatagttgt gacttttgaa 60

naaatcttca gaaccaagtc acttgaagaa atgtgacttt tggaaatgta tttttcaaaa 120

tcagtcattg gtaatcaatt accattaagg tgtaatcgat tacacatcaa tagatgtgac 180

tcttcattnt gaattttgaa aattaanatg tttagaaaca ctggtaatcg attacaagca 240

ttgtgtaatc gattacacaa gttaaaaatg tttaaacaca agttgtaact cttgaaattt 300

gaaatcttaa cattntaaaa cactggtaat cgattactac cttctggtaa tcgattacca 360

gagagtaaaa ctcttttggt atgaatttgt gaaaacttct tgtgctactc aat 413

<210> 29668

<211> 409

<212> DNA

<213> Glycine max

<400> 29668

agctttcaac atgagtcttc acaaataacc atcatgaagc agaaaactaa cagaactacc 60

catcatatct cccaaaatcc catacccacg aaatttaaga gagaaagaag tccacccaaa 120

cctgaaattt cgaagtccca ctcgtagaca cgcacttcac gactccgaaa atgctctcct 180

ttcacgattt ggggcagaaa tgatggccaa aggttgaagc tttgtttgga gcttcaatgg 240

agaatgaagg agaagagaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga aaagcttttt ggttctaaat aacaaggggt ctctctgtat 360

ttctattatt ttatttaatc aatgccacat gtctccattt gagtggagc 409

<210> 29669
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 29669

tcgcgatata tcttgcgct taatcggact ttcatttgat aagttatgac catatgaatg 60
 tctcgagagc tttcgttggt cattttcaag cttctcgata tagtatgcg ctgaatcgga 120
 cttgcacttg aaaagatatg accatttgaa cttctcgaga gcttgcggtg ctcaatatcg 180
 agcgtcttaa tatattatgc gcctgaatcg gactttcgtg tgtcaagtca tgactatttg 240
 aatttcttga gagcttgctg tgttcaatat cgagcgtctc ggtatattat gcgctggaat 300
 tggactgtca tatgacaaga tttgaccatt tgaatatctc gagagcttcc gtgaccgttc 360
 caggtttaaa taagaagaat caccggacga cgccgatcga acattgtcta gtagacatcg 420
 tccaaatatt atcggcggat tgaatatata aaacaatacc ggaca 465

<210> 29670
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 29670

agcttagaga gttagcttat tggaggacaa aaatgagaga aagagagagg ggggcacata 60
 attgaaggag aaaaagaggg agagaagttg aaatttgaag tgtgtctcac aattttcaca 120
 ttcacaaag ttatgacaag tggtacacat gtttctatgt atagcctagg tcaactaacta 180
 tatgaaagct ttcttgagaa gctagagttt aactacacac actccctcta atagctaagc 240
 tcatctccat gaaaagcttc cttgagaagc tagagcttag ctacacacac ccctctaata 300
 gctaagctca ctcttatgtc aaaatacatg ataatgctta gctacacaca cccctctaata 360
 agctaagctc acctctatgc caaaatacat gacaatacaa aaaaattccc tactataaag 420
 actactc 427

<210> 29671
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29671

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ctcctcactc agccacagca gataatacag aagccttttc tctccctctc tcacgtagct 60
tactactctt cttcctccac cattgaagct ccacacaaag cttcaacctt tggccatcat 120
ttctactcca aatcngnaaa ggagagcatt ttoggtgacg tgaagtgcgt gaatacgagt 180
gggacttcga aaatacaggt taggggtggac tcactttctct cttgatttca tgagtatggc 240
gcttacgaga tatgatgggc agacttgcta tgttactgct gtgtgatgat tatttgagaa 300
gacattagct gaagcttgat gaaattgcc a tgattgtatg acttatacat acccattatg 360
gtcaaggttt taggacgatg ttcgtatgct atatgcaaaa tgctatggaa actgta 416
```

<210> 29672
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29672

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agctntacct tcacaaacac ataaacacat tactccatta atgcatcaca cggtagtcta 60
tttgaaaatg gatctttttac tctgtgcctg caaggactgc tgacccttcc acctgatagt 120
tcatcgcatac aaatagacaa aatatatcat aagatataag tctcacagtt cataaataga 180
gagagccaca cagtcaaaat aagcaaaact accatgaatg caaaaacaaa tattgaaata 240
aataatacca ctattatgtg tagtgcagct ttccaacttt tgtacctaac tgaaggagac 300
ttgtcaatca cttgagagcc tgtagcagat gcaatactgt aattaatgaa gcttcattgt 360
gagaactgtg gtacaaccta tagtgacaga caattagtca tcattata 408
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<210> 29673
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 29673

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gtgttaattc actcctcatg tgttggttat gtttggatca tgtgatgatc ttaaaccctg 120
cgtttgtgag agcaaagtac taggtgaatt actttaagaa accttgtgat gaaggactcc 180
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gagacacaat attttgatag gatgtaacat tggaacaaga gtttctatgt taattgcatg 240
atgtatcaaa catgtcattt tactctatgt gataaacttg aacagtcttg ttttaagtca 300
taaataatttc taagacattt tatttggtta cagtgaagcg aatgtgaaca ttatccacgt 360
gaacttattt acgatcttat tgaataaaat tgatttaatt agattccgca ttgtatatat 420
gtttctttca tatatatgta tgttggagta caatgtgtga gagacatctt 470

<210> 29674
<211> 418
<212> DNA
<213> Glycine max

<400> 29674

agcttgctct gtaagtctta caaacttact ctgcaagttg taaaaatttg ctatgcaact 60
ctcataggtc tctataaaat gtacaatgta actaaaaatg tttgggaatg aaattaaatg 120
tcacacttcc gcaaatttta cgcaatgctc tctttctctt actctctatt tctctctctt 180
tctatctttt agtttcaatt cattactaat agatgtcatc cctctctttt tgtgtactca 240
aagtcagaat ctgtaatgta cagtctaata tatgtagagg atatcatagt cactgcaaat 300
gactctaaac tgatttataa actagtttac ctattttcct tacaagatca tggagatctt 360
aattattttt tgagaattga agcagctaata taagttgatg gctcacatat acttactc 418

<210> 29675
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29675

tgactcgagt tatcaagaga ttataaatat gtggccatgg cataataatc catcatcttt 60
gaataatcta tctttcaatc ttctctcaac atcattcaat atctttcaac tctttctaca 120
taattttctg attcatttct cttcatcttt ctaaaagttt ttgttcaagc actttctctt 180
ccaagaaaag ttctttgttc aaaaacttgc gctattcatc cttttcattc tcttctcgct 240
ttgccaaaag aacgaaggac taaccgccta aattctnttg tgtctctctt ctcccttaca 300
aaagattcat aggactaacc gctgagaat tcttttgatt cttccctttc cctatagcat 360
aatatttcaa aggactaacc gctgagata tctttgtccc aacacattga agggtacatc 420

ctttgtggta caagtagagg gtacatctac tncgggattt tataactga

468

<210> 29676
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29676

agcttcgtcc gcagatccct catgtaagac taggcctaaa ctaaacaaca ttactgtaac 60
agcataatta aaacccaaaac ttaactcgca gatccctcat gtaaggctaa gtttcaatcc 120
tgcttcaatc aagttctaaa gcaacagtac atttcccaat gctaaagtca cctaactatg 180
cacacaaatg ggtgatcaga ccaaagcat acaaacatta agcattgaag gaagcattga 240
acacaaaaaa cataatcaat tagatattgc gtatttacat caagtgttca ttaaaaatcc 300
tcaactaggg tgtttagcca gccattacaa agaaacccta ataataaatg agattaanag 360
cagagaatga tagttccata cataagacag nggattcctc ctctcttct caacatctca 420
cac 423

<210> 29677
<211> 338
<212> DNA
<213> Glycine max

<400> 29677

catctatatt tgcatatgat gcgcaagaac ttatttccaa acacaattgc tcaacattct 60
taaggctcaa gctcctctta taccaataaa aagaaatgtc tggtaacttc attcccggtg 120
acttctcata cccatatcca ccatcacaac ttaagcgtat tttgatagat tggttctaate 180
tattattggc tcatgtaatt atagaatgac tttaatgata agatgggttg tagacttata 240
tgtattaaag tcattgggag ttatattagt ctttagaatt agttccctct cttctcattt 300
cattaacggt aattttggca ttaaagacca aaaacttg 338

<210> 29678
<211> 341
<212> DNA
<213> Glycine max

<400> 29678

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acaaaaaaat gaagataatt caagtaaata taaaaagagt acatcataga aagaatatta 120
caagaagagg gtaagagaga gtcttccggc attcttctta catgtttata tgtcataacg 180
agttaaagat tatctaacat gaatttataa atgcaatctt agaaaaaaaa aagaataaga 240
aagtatacat ctcatgtcat tgtaattgag atataaaaaa tagtcatatg acaggagaca 300
atggtttcaa tgtattccat aactatagct ctttgagatc c 341

<210> 29679

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29679

tggcaggcac atgcacaagc acttggttanc tcatacaaaa tatacaaggc ctacattcta 60
aatgccgttc attcatagtg agagagtctc acagtttata tataaacgga gatatcatca 120
tacaatttcg tctcaattag acaaccaaca tgacatgaga aatttatgaa tgaaagattg 180
ctatttgctt tttctttgta aggacaggag atggtagccc aattcataga agacaaatan 240
tctttaggct caaagaacat tcctagaaga cttacatttg tctcacccca tatagacaat 300
tcagacgagc aatgacttaa aactataacc tgtttgatgc aagaccttat cttgttccat 360
ctgactaata tcttgttcgt aaagatcgct atatgt 396

<210> 29680

<211> 416

<212> DNA

<213> Glycine max

<400> 29680

agcttggaga gaatgcttca atggaggaaa agaaagaggg agagaaagag agaggggggg 60
agcacgaaat tgaaggaata aaagaggggag agaagtggaa ctttgaagta tgtctcaca 120
gactctcatt catcaaagtt acaataagtg ttacacatgt ttctatttat agactaggta 180
gcttccttta gaagctttct tgagaaaact tccttgagaa gcttctttga gaaaacttcc 240
ttgacaagct agagcttaac tacacatacc cctctcataa ctaagctcac ctccttgaga 300

agcttcctta agaagattcc taaaaaagct aaagcttagc tacacacacc tctctaatag 360
ctaagttcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataat 416

<210> 29681
<211> 450
<212> DNA
<213> Glycine max

<400> 29681

tccatcaata cagaggcggc gagcctgatg acatgcagga accatttggg cccctacttt 60
taaactttct tttgctatct ctaagactca aagcatgata gcacgcagag aataacatcg 120
tcttctgcg cttttgtcat ccagaggcgg cgggcccgat gacatgcggg aaccatttgg 180
tcccgcacat ttttaagcttt cttttgctat ctctaagact caaagcatga tagcacgcag 240
agactaatgt cgtcttctgc acctattgtc atccagaggc ggcgggtccg atgacatgca 300
ggaaccatct ggtcccgcat ttttaaacat tcttttgcta tctctaagac tcgaagcatg 360
atagcacgca gagactaacg tcgtcttctg tgccttttgt catccagagg cgggtgggccc 420
gatgacatga gggaaccatt tgggtcccaca 450

<210> 29682
<211> 64
<212> DNA
<213> Glycine max

<400> 29682

tgcttaaatg tttagtctag tgatatccgg agaaatttgg cttcacagtt aattttgggt 60
tctc 64

<210> 29683
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29683

gcttctaagg aagttttctc aagatagctt ctcaaggaag ctacctattc tatatataga 60
agcatgtgta acacttggtg taactttgat gaatgagagt cttgtgagac atacttcaaa 120

gttccacttc tctccctctt ttattccttc aatttcgtgc tccctcctct ctctttctct 180
ccctctttct tttctccat tgaagcatcc ttccaagctt cttatccaag gtcattccc 240
tagtggatgg cacctcctct cacctcttct cctttgtctt ccgctgcac tccatgggtgg 300
aaaatcacca ttaaaggacc tcattgaagc tcaaagatcc agcctccata gaagccccac 360
atgcaagctt acatcataaa cattntccat aacttgtata gctgccaat ttatggttat 420
tctgtagtga ttctgtaa ataatcttgg tta 453

<210> 29684
<211> 352
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29684

agcttgaaga agttttgatc tgcacattaa aggtgtacat tcaatcta at tttgatttct 60
ttgtaaaagt ttaatcttgg ctagggttac caatggattt tgagttgata gggtttcaac 120
tcttggattt tctctttgat gcaatcctcc ctatgaagg accagttact agatccatga 180
gccagaggct tcaagaggat tgggctagag ttgctaaaga aggccctatg gttctcatga 240
acctcaaggt agatttctga gcccatgggt caagggtggg tccaattatc tttgtacata 300
ttagattang atgtcattat atttggctct tgtatttacg actccataat at 352

<210> 29685
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29685

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gtcatttccc atcaa atcaa ggataatgcg cataatcatc atggatcaat aggtcttttc 120
aaggttggac ttgtaggaaa ttttggcatt gggttgctttn gggttctttt tcttttttgt 180
tttgggtgtt ttgttggtga taagagagca ggcatataaga tttggctagt agcttaaa at 240
aggcgaatac ttcctatcct ttcatgcctt gaccaagttg tcattatctt tcttccattt 300
tgcttttttc aacaactcca cacatggntc agatgtttgt tattataaag aacttattct 360

tcttctctat tttcctttt

379

<210> 29686
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29686

agcttcatca atgaaacaag gaaccctttc cgtcacggag tacttcacaa agcttcgtat 60
catatgggat gaaattgaga acttcagacc tgaccccact tgttcttgca ccatcaagtg 120
tacatgctca gtcctcacca tcattgcca acggaaatta gaagaccgag ccatgcaatt 180
cctatgagga ttaaacgagc agtacaacaa tgtgagatct cacgtgttg ccatggaacc 240
catgcccacc ataccaaaga ctttctctg tgtagcccaa caagaacgtc agctatcaat 300
tccttttcaa atctcaatct tgaatcanaa gaaaacgttt ccattaatgc cgtcaagaat 360
acttgatgaat tctgctggagc aaatgggtcac accgaaagcg ttggtacaag aaacatgg 418

<210> 29687
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29687

ttccaaanag agttactaga gacatgtag taagatctct tgattatgca attggtgtta 60
cttttggttg ccattgcctg cttaaacatc taaacactct gttaatgaga tcttcaatag 120
gaaatatttt tcccagtgat gcaagatgat taactatatt agtaaattct ttttgcatat 180
cttgatgggt ctcatattga ttcattctaa acagttcata ttcattgtgtg agagtgttta 240
ttctagatct cttaacatca gttgtgcctt catgggttac ttgtaatgta tcccatattt 300
cttttgcatt ttacaattt gagactccaa aatacttatt cattcttctc taagtttttc 360
tatcagtgca tatcccacta ccattgcagg aatgaaggga ccaatgtcaa tggtttccca 420
tatatntaaa tctatggctt ctata 445

<210> 29688
<211> 175
<212> DNA

aggtatgcag aaataaaaca aatcctacac cagtatatatt catttacgag tataattcat 360
 tatgccacac atatataaat gtgtacaaac attatgtaca tcactatttg ttataataaa 420
 ttgaa 425

<210> 29691
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29691

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 ctagcagtga tgatatgatt ttataagat aaccaaagt ttacttcttc caaaattgag 120
 gtgtttgttt gggttgtaga aatcttcata ttgatgtta tgcttttacc ctttatttca 180
 atgttgattg ttctttcatt gcctcaccag acaagatcta agaggttctt ggaaattcaa 240
 caattgaggg agcataataa agagtatgac atgaagacaa caatatattt ggtaaagaa 300
 acaactaaaa ccaagtttgt agaaatagta gacgcccatt tctgcctcaa cattgacctt 360
 aaatataacg atcaacaatt aagagcaaca gtgagtctcc tgctacttgc ttgattatgg 420
 tatatgcagt tacattgaan acgtgaggt 449

<210> 29692
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 29692

agcttcttga attcatgttt ctctcacgag aagtcaaagc tgctagaaga gaattcacia 60
 ctgtcgacca acgtggcagc ttgtgacaat aatgattcac acgtctctta cggagggaac 120
 acaactaccc tgcatatgat tccatagtgt gacattgcta gacctcttct agctgtccaa 180
 gtagagaata tgtctgggat aaatacaaag gtgtgtgaat ctggatcttt cagctacagt 240
 gagaagttgg accatttggg tgatccacat gttgatgctg caaactcata tgaaaataca 300
 atgacatttc tggacccttc ttcatcttat tctgcttcat ataatgcaca tgatcaacca 360
 gaatctocat tgcaaactta tggagat 387

<210> 29693
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29693

agcttcatga tgacgaatca agattaattc aagttgtttt gatgataaca aagatgatga 60
 caaaaagctc acgagaatga tttcaagatt gagtcaagaa caattcccaa gagaatgatt 120
 tcaagattga gtcaagaaca attcaagaat caagagaaat ttgatttcaa gaatcaagaa 180
 tcaagaataa tcaagatcaa gattcaagac tcaagattca agaatacaaga gaagactcaa 240
 tcaagataag tattaataaag gttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300
 tcttntacca aagagttttt actctctggt aatcgattac tatgttactg gtatcgatta 360
 ccaatgacaa agcttggtttt caaaagcttt caacttgatt tac 403

<210> 29694
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 29694

tgtaacgcca taagcaatgg cgagaaagac gatgccgcca ttgactacag cgagacatgc 60
 tgtgactcac tgcccatgcc gccattcata ctggcgggac atgctgacta ggaaagatga 120
 gcatctcgcc agtccttcct gcgagacacg agcccatgcc gccattggta ctggcggggac 180
 atgccaacgt ggacagtccc gccattggct cctacgagac acgttcacgc catgcttaag 240
 tctgaagatg ccactgttga tgatgagact gaagcattgt gatgcatgct atgggtcaaa 300
 ggctagggct gtggttcaca tgcattatat gcagaggctg aagcattttt ttcgtgatgc 360
 aggctagggc tagagttgta gttcacatgc attctgtgca agtatcacat gcatacagtg 420
 tagc 424

<210> 29695
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29695

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gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttggccac 120
ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180
cccatcaat cctcccaagc tttcccaaca tcaaagtaaa acgacattca aacagcacia 240
gctatcacag ccaagcaaaa cagagcaaag gcagataact ctgccaaaac accaaccaaa 300
tcacagcttt tctcacttan agactccaat aacaattcct tcgttcgggt tcattaaccg 360
ttggatcgac tcgaaaantt tactggaagt ctttagtaca taagcctaca t 411

<210> 29696
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29696

tgctgccacg gagttntccg actatgctct tgtgtggtgg aacatgctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatc gttgagctgc aggagtttgt tgaaatggat gatttgcttc acatagcaat 360
ccaagtggag caacaattaa taaggaaggg agtagtggct aagaggagtt ntaccaactt 420
tggttcttct agttggaaag acaaaa 445

<210> 29697
<211> 326
<212> DNA
<213> Glycine max

<400> 29697

agcttggttaa ttaacttaga gaaaatcaag atcaagcttg ttgcacatc gctcgtgtgt 60
atgatatcca ctgcacaagg tttgaagtag aggaaacctt caatcctata acgcaacgtg 120
gcggaacaaa gtgggcaatt aacttgaatg gccattattg tcaatgcgga aagtattttg 180

<210> 29700
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29700

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 actgaagaag aaaggatgag aagaggggaat gactgggttc ctagaacaaa tccgaattga 120
 tggattaan actcaacatt tcctgcatat aaaggaaaga atgatcccga tgcctacttg 180
 gagagggaga tgaaaataga gcatgttttc tcatgcaaca actatgagga ggaccataag 240
 gtgaagcttg ccgccacgga gttttcgact atgctcttgc gtggtggaac aagctacaaa 300
 aggagagagc aagatatgaa gagcccatgg ttgatacatg gactgagatg ataaagatca 360
 tgatgaagcg gtat 374

<210> 29701
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29701

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 ttaccctcgg aagcaaaaaa aggaagagaa ggaaaatttc caagcaaaaa aaaggagaga 120
 aggaaaattt ccaatcaaag gaaaaaaaga ggaaagaaaa tttccaatca aaggaaaaaa 180
 gagaggaaag gaaattccca atcaaagaat gggagaaaga aaaaaaaaag agagaaggag 240
 aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagacat gtgcataaga 300
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaatcata acctacaagt 360
 ggtcttctcc ctgtgattac caatcaaaat cctgtgcgtc ggtgacttgt tcgcctcgcg 420
 tca 423

<210> 29702
 <211> 441
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29702

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caacatatct acctactggt gtcattttat ttaccttgca ttttatagct tttagcatatc 180
aagtttagtt tagattttgt ttgaaattat cacttataca tgttctctca acaatgcttc 240
gattctgaac ttaattcagg gtaacattag ttccctgtgt tcaatactca gattcattcg 300
ttttaatttt aaatacttgc tgatctgggt cgctctccga taaaccccg tttacatttc 360
cttgagacat agatgcacaa aaagtaactg caatggcgag tgagcanagt atctatggca 420
ccattgccgg agaactaaat t 441

<210> 29703

<211> 249

<212> DNA

<213> Glycine max

<400> 29703

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tgggtgatgt ccctttcaga tactcatgtg tttccctttt atcatctaga ttaaatgtat 180
gtcataatgc tctcttgctt tccaagataa ctggcctgat tcaggaatgg agcaaaaaagt 240
ctttatctt 249

<210> 29704

<211> 459

<212> DNA

<213> Glycine max

<400> 29704

tagggttcaa ctcaatcaat cagatttaag ctcataatgg gtgcttagga ttcatcattc 60
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tccaaatcat gcattcatta agtattcaga gattcatgca aaaattggta ctcaatgcta 180
gtcgttctct cacaattaaa gatcacacaa ctcaatgggt tatgggctaatt gattacattc 240

aaaaccactg ctgcaagata aagcaactgt cattcatgcc tggccaaaaa aaccaaagat 180
 tttggcaatg ttctctttgg ctttgggtctt tnggatggga actaatgtgg agctgagaaa 240
 aaaaagggtgg gaattgacgg taacgcttac aaagacatga agaacaatca tgtgtcccgt 300
 cgctttcaaa cgcctcacgg aacagacaca acaacatccc tagaaaaatca ttcacacaaa 360
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 cagtaagttc tattttttaa c 441

<210> 29710
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29710

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 ggaaaaggca tcaataaagg atacacagta tttatgacca gcataggaag tcaaagggtcc 120
 ccacaaatct gtgaagataa gctccaaagg agagtaaaca gaaatagaag tgtgaggtgg 180
 taatctatga gattttttcca tcagcaggaa gaacaaaaat cagaaaaatat tttagtagtt 240
 gtgggaaata ttacaatgat tgaagactag cttcattaca tgactattag gatgagctaa 300
 cctagcatgc cagagactag caatactagg agaagaaaca acagaattgg aaaccacagt 360
 agagttttca ttaaccgtag cagctgtaat agacaagcca gtatctgaaa ttgagta 417

<210> 29711
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29711

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 aatcgaacat ccgagtgaaa agttatgact ctttcaatnt ctcgagagct tctcttgttc 120
 aatgtcgaag cgttcgatat gtgatgtgcc tgaatcggac ctgcggtgaa agtatgacct 180
 ttgatttctc gagagcttac gttgttcaat gtccagcgtc tcgatctgtg atgggcctga 240
 atcggacctc gcggggagaa gtttgaccat ttgaattgct cgagagcttc cgtcgttcaa 300
 tttggagcgc ctcgatatgt gatgcgcctg aatcgaacat ctgagtgaaa aggtatgacc 360

gattgaattt ctcgagagct gctttgttca atgccagcgt ttgcattatt atgcgcctga 420
 ttcggacttc cggtgagaag tcatggccgt gtgatttctc gagagctccc gtgggttcagt 480
 tccaggctct cgatatatgt ggcgccg 507

<210> 29712
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 29712

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 gcaaattattg gggcaaaaaga tggatcgcggt tacatcggtg ctctgtctac tgccaaacac 120
 atttagggcc gtcgatgtcc ctgttacttc cagtttcacc ttgacgaaga tgtcatggac 180
 catgttgaaa atctaaattg attcaacccc atatcctgcg taaaaattcg caatacttca 240
 gctgtgcac attcgcatac atccatgttg ttcattgggt gcattgctca ttgcattctt 300
 tccttaaaaa aaaaaagaac ttaatcattg ttataaaaaga aaaacatgat ttacgggtgcc 360
 ctcatcgaac ctgtgctaga gctagagtaa 390

<210> 29713
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29713

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 gngggagttt gcttgggtgga taatttataaa ggtaagaaaac aacaacacac acaacaaatt 120
 aataaaatgt tctatgtgtt aaaaaaaaaag agagtagttc aaataaagtg tgtgtgcttt 180
 tagaaciaag tcaagtgaag gactagcgag taagctaagt ggattgaaaa gacaaattgc 240
 gtaagtctag aagttgtgct ctcttagact tcaagctatt gcattctaga aaaaccaata 300
 tttttttttg tagccaaaacc tcaactacaag ctaataaaaag tccttctgat tcaatttgtg 360
 catttctaac attatggcat gagatgaagt acaaaaattg gacctcttgt agttgttatt 420
 gtaaatagct tanacacttg tgcgtgagtg atacagt 457

<210> 29714
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29714

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 gctgcatgca agcttgagac tttacacgng tgttctttct tgacgagctt tacaaccgag 120
 acggtcttat ctctaaccag actcccaacc actatgatac gcctgccatt tctgtaacag 180
 atgactccaa agaagataac gttactgcac ctaacatcca ggacatacaa actactttat 240
 ttactcgatc agtccactgc ncaatcattg aaaccatgaa atgcgtcgtt ggtgtgagat 300
 agcacagtgc atagatgtct atgatcttta gcaccgagcg gtagcaacga agctcgcgca 360
 aagtaatgtg tctacactgc caattacaag tgagaaggaa ctatcccgtg gctgggatac 420
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<210> 29715
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29715

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 tttatgtcta tttattgaaa gtttattttc ttgattgttt ttaaataaaa ggttttccat 120
 tgaaatttat aatacatgag ttgacacatg caagcttata ctaattttta tggaagatct 180
 tccttgttta attttatttc atagttcgaa atcgccaaaa taatttatat ttcaacttat 240
 ataaatctct catgaagttt aattttgttt cgttgtttgc aattgccaca ataatacagga 300
 actgagcgtg gtagtagggt tgcttctatg cgtgcagcaa taaatgacac tgtccctgaa 360
 ccaaataccc gcttactgca aaggatatttg attgat 396

<210> 29716
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29716

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aatccagatg gaacttgacac tgggatacga tataatggcg gtgacagtct gcttgaagtt 120
ctcaacaagg aaactaatag agggatatgtg cccttagcga tgagtatctg tgaattgtat 180
ctctctcaca cgtgtgccgc tgtgccgagc tcagtgccag agaaccattt tctgaaatgt 240
aatggtaatg aacaggaagt atcagaattc agctgacaga gtaacattga cacaggaatg 300
ggcgccagac caaggatggt gatgtgatgc aatactgttt tttgtaccga tgggtgcttg 359

<210> 29717

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29717

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ccaagaggca gccgctctga tattgttaat gcaacagtta attgctctta tctatgggat 120
tattatcaga tcttgaggct gacaaataac atgctcttac aaaacaacat gcgagcatca 180
gatcatgacg aaattatgac tcttgcacaa cggattatag atattgatga tgagattatt 240
ggacatgaca atgatggcta cgctactatc gaaatgtcac atgaactatt attcacagaa 300
tataatgac ctattcatag catagttagc tctacattcc tagattcatg tcatcatcac 360
agtgatcgtg aatacttaca attcacagca atattagctt ctac 404

<210> 29718

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29718

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acgcntgaaa ggaaagaacg tgcttcaatt ttatgagaca atccgccata tatagtagtt 120
ttcagggccg atntacctat ccacccata ccccatatac caaaggctct aacttcttgt 180
cgcgccattg taaagaatga ttcaatatgt gtacaatgct cctaaattca actagtcctt 240

tacgttgatt tggatatcaag aggcaattct tgccaaacat ctgcacaatg tccttaagta 300
 tttaggatca gtcctatcta ttaaagggat acactataaa ataaaaatga togatgcgta 360
 catatctatc aaatccaaca aaaagaatta tcccgatgcc ctacaatgat ttacagtcta 420
 caacagaaat agtcatgata atatgggtgtg cggagacata acaagatttt attaggaatg 480
 aaaccctgct taaact 496

<210> 29719
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29719

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 tgggcaacag agctcgagtc tatacgattc atggccttca tcatgttctg agttatacaa 120
 atcattctat aattcctaata gtaattttca gagttgccta tactatgggt gacgcgaata 180
 tctaagataa ggatcatgag gaacttatat ggatcgctga tacaattgac ctaatgtaga 240
 tgtcggatta aatgatagag agagagagag atatgatatc ggttatg 287

<210> 29720
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29720

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 agaattcatt ctgcggcctt gagatgagta gtgggttgag tctccatgta togactgatg 120
 agtctagtag catatagaat gcctgatttg tgcacatcac atatcgcana ctaccaccca 180
 cactctggaa attattagca tccacctttt ctgcctcatt gaactgtgat aacttcatct 240
 tgtactccac cgttgttcaa agtggccttg agctatccat cttgaatttc ttgagcatct 300
 tctat 305

<210> 29721
 <211> 372
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29721

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ggaatacttg ttcgtatcag aggatgacaa tccaaacaga atgacgcctc atgcataccta 120
tgtggcaaaa ataacccatg ttaggtaaat tgggtcacaa atcaccattt ataattttac 180
acgtaaacad gtattacatg gacaatctaa tgatatttaa gcggtaatgt ctcttaagaa 240
gttttcaaac actttacttg ctactntcca ctgtgtttgt cacaccaagt actatgagaa 300
ggcaatagga ccaattcttg ttgatcctat aactaatatt aacatcctat aacttcgtgc 360
atttcacgtt ga 372

<210> 29722

<211> 372

<212> DNA

<213> Glycine max

<400> 29722

agctttaacc ttattgtctc tcatagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc aatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcatgcgc catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180
gtggtcacta aaatctcgtg cgatgaaagg cgtgattgat gcaagctcca ttggagcttg 240
taggcctagg atcttcttca ccaatggatt cctttgcttc ttggaagata aatggcagcg 300
gaatggagaa ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa 360
gctcaccacc at 372

<210> 29723

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29723

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tgtctaaagc aataattttt gctttcatgc tagaatgcga aataataagt tgttcagtag 120

atttccatga tactgcacca ccaactaaag taaagacaac cacttgtcga ttttggttca 180
 ttagaatcag aaatccaatt tgcatacta aaccctcaa ttacatccta atctaccaac 240
 tgcataatgcc atgtcagacc cagagaaagt tgtcaaatgc aacaaagaac caataatttg 300
 aggatattta tgtgaaaaaa ttcttttact canacttttc ttttaacttaa tggatgagtc 360
 ataagaagta gaaacatggt tcacatcana ataattaaac ttcttcaata gcttttcaac 420
 ataatgtgat ggggttaaac ccatgtatca tt 452

<210> 29724
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29724

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 ggtcgtatta ttctcatgag ccctangata gattttgggc ccatgggcta agtatgagcc 120
 cacttatctt tgtacatatt agagtaagat ttcattattt ttggatcttg tatttatggc 180
 tccataatgt aggtagggta ccctagaaat gtaagatttt tcaaccattg tattttatga 240
 cacctagact agtatttgta ttatgggtag ttctgtaatt tcacatgcat taagtgaata 300
 tatgatgtgt gtgttgcgaa atacaattaa ttgaatcgng tgaagcccaa tccaattaa 360
 ttttataggg ggagat 376

<210> 29725
 <211> 354
 <212> DNA
 <213> Glycine max
 <400> 29725

agctttgaaa agtgggtggtt ttcaccttct cgctaagcca atccgctgtc ttagcgagcg 60
 tccgctaagc gcaacactca ttggctaagc gcaaggaaga atctggaaga aaatgagctg 120
 taccagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct 180
 aagcgagaaa ggcacgcgct aagccgaaat tcactaatgt gcgctaagcc ggccagaatt 240
 gcgctaagtg cacgagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga 300
 agggagtttg ggctaggatt cagagctttg catgtctaga gattotagag agag 354

<210> 29726
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29726

agcttcacca ctttatgctc atctctattn ttttctaacc tctntgtcac gaaatcccta 60
 tgataaattc tatgcaaaac gcctctccta aactaaaatt ccaaaaaatc tttttttctt 120
 caaaaactac tccctacatt ggctccaaca ccaaccaatt aactctatca accatcaaag 180
 catccaagcc acccaggggc ggaactagag aaaaaagtta agggagacga aaaaattaac 240
 acatgattat gtaaaggaga catgaagaag aaagttgtaa tattaaactt aacatgttaa 300
 aagctgaggg ggacaaaatt ttctattnta agtgcagtta ctaatgaatt gtgattnttt 360
 aggagggacg gatgccccctt ttgagatggt tgtagttccg cccttgaagc cacca 415

<210> 29727
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29727

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 tgggggagaga gaccagnaag acccatataa gatctttatt tatgtaccta tttatgagta 120
 aatactatat gcattgatag tgtaaagagt ttttatataa taattcaatt acaaacataa 180
 atttattgat ttttatgata agtatcttaa agtcagatca gcaagaattt atgtggaaac 240
 taaactcttt attcattcac atatacttgg gtaagtgtt tttatgatta tttccgcctt 300
 taattaattc aggttgggca gataaaattc atggtctaac gggctcagct gacgggaata 360
 tcatgcacaa catcttattt ttttattatg gagaagcata tacttctact ttatgctgca 420
 tgttcaagag aggtgtactt atatt 445

<210> 29728
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29728

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agcttgatag cttgtataag aatatgactt cagggagatt caactntcac ccaccatcac    60
tntatacatg caaaaactat ctttgtcagt tacataatct cttgatgcta gtttgggcat    120
gactatgttg agcagaaagt tgttgatgag cctgcacata tgtgagggtta gcggtcctca    180
gaaagctgac caaaccttc ttataagatg attttggaca ctgttttcca tagagcatag    240
agtccactgt ttcacagggtt atctccttc                                     269
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<210> 29729
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29729

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cttccttgat ctctttgaac ctaanggatg taccctccac tagaactgat ccacaagaga    60
tgtaccctct cttggtttca gtcaaaccga agtagatgta ccctctactt gtgccacaaa    120
ggatgtaccc tccaatgtgt taagacatag atctcaagct gttacacctt tgatactttg    180
tgaatgggga taaaaagga atctcaggcg gttaaccctc tgaacgctgt tgtattangg    240
aatgggaaga ttcaaaagaa ttctcagact gcgtcgtttt gaattctttg acaagggaga    300
agggagacac aaaagaattc aggcggttag tccttccttc ttttgtgaaa gggagaagag    360
agacacacaa agaata                                                    375
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<210> 29730
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29730

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ataggtagcc ttgttcgtgc ttatgcgctt agcgcaattc tgaactgctt agtgcacatt    120
agtgaatttc ggcttagcgc atgcgtttct cgctcagcgg atgaactgaa gcggtgcact    180
tagtgagatg aagcggtgcg ctcagcgaac ctgtatagct tacttcttcc agattcttcc    240
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t c g t g c t t a g t a a a t g a g t g t t g c g c t t a g t g g a c g c t c g c t a a g c c a g c a g a t t g g c t t 300
a g c g a g a a g g t g a a a a c a a c a c t t t t c a t a a t c g c c t a a t t a a c c t g a a a t t g a g a g a a 360
a a t g a t t a t t a a a c a c a c a a a a t g g a a g t a c t a a g t a t t t a t t a a c t a t a t t 412

<210> 29731
<211> 429
<212> DNA
<213> Glycine max
<400> 29731

t c a c a c g t g g t t t t g a t a c a a c a g c a c t g c t g c c g t t g t g g a t c t t g t a t t c a c t c a t a a 60
a g g a c a t t a g c g c g a g t g t c a t t t a c t c a a c c t c t g c a t c c a a c a t c t g g a a c g a t c t t g 120
a g a a a c a t t t c a a c a t c a a g a a c g g a c c c a g a a t c t t c c a a t t g c g g a a a g c a t t a c t c a 180
a t t g t g t t c a a g g a a c g a a c t c c a t c a a t a t c t a c t t c a c g c g a t t c a a a g g g c t t t g g g 240
c t g a g c t g g g t g a a c t c a a g g c c a a t c a c a g t t g t a a t t a t g g c g g g g t t g c t c c a c t t c 300
t t g c t t c c a t c a a a g a g g a a t t t g t c a t g t c a t t t c t a a t g g g t g t c a a c g a g a g t t t t g 360
c c c a t g c t a g a g g t c a a a t c t t g t t g a t g a a a c c g a t t c c g g a t a t t g a t g a g a c c t t c t 420
c a t t a t t g c 429

<210> 29732
<211> 413
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29732

a g c t t c a t c g t t t g g a c c t t g g a g a t a t g t t g a g a g g c a g a g c c t c t c c t a g a g c a a a c a 60
g t a g a t g g a c a a g a a g g t g g a g a a g c a t g g a t c g a a a g g a a a a a c c a a t t g t c g g g a t g c 120
a c t t c a a c a a c t a t g g a t g g g a c a a t g c t g g t g a t g a c g a a g g a g t a t g g a c t a a g g t g a 180
t t a g t a a a a a g a c c g c g a a a g g t t t g a a g a a g a c c c t g a a g g c t g a c a a t c a a a c g c a a c 240
a c c t a g t g g c a a g g g g t a a a c c t a c a c g t t a c c a t a t c a a c t g g a g g g a c a a g g a t g a c a 300
t t a c g t c a t a c t a c t t c a c c c a t t t t c c t g a c a a a g c t g a t g a a g a g t t n g t g t g g a a g c 360
a t t c t a a a a a a t g g g g t g a t g t g a g a g a a g t t a c a t a g c g a a n a g g a a c a a t a 413

<210> 29733
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29733

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 agctggatag gtagttacaa cagaaagctt aactaatcta actaacctaa caaactagct 120
 aactaacgca gtgctgttaa gatctttttt atcaccaa ataatcttata atcttgtgat 180
 gcaattcagg gcattaaggg gatggaacac ccaatattgg cttaggtggg gcactaataa 240
 gcttgtatct tctccccctt aaaggagtgt ggtagagtat gaattatcat gcacaatgtg 300
 aagctagaan atcacctact cccctaaagt tgactggtnc tagtggaat atttgcactg 360
 gttaaattaa attggttga attntntagt ctaattatgt tcaacctgaa caaatgaat 420
 cgatcctctn tgtgatttat aaactcgtcg gttgagtcta atta 464

<210> 29734
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29734

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 caciaaccaa attggggcat gtttcttaat aaaattgctg ggctcaaat cagctccaca 120
 tttcaaaatc gagagggata aaaaattaaa ataataaact aagtattggg acttggttag 180
 gcttcttggg tcttaaatta aacatattat caaacaacgc acctatctaa ttgacattat 240
 tcaccgtgtg tcataaatga attgatggac tacaatatcc aaattcaaca accaatatga 300
 acaagactca natgaattca ggatagcata atgatccaaa ctacaggtg gttacataaa 360
 cgattatgta cgcactccgc tatcaaagcc actgtccgcc ttcaatgcta aacctgctc 420
 agcataatga 430

<210> 29735
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29735

ntataaagct ctatntaagc aaatatcttt aggcaatgtg ggactatatg cactccctgg 60
 aagctgcaat taaggcagca cctgaagagt ctgcaattaa gccgggctag ggatgaccgc 120
 cactactgtg gcttttcaac aataagctta taaaaatctt gaaaatacta cattcggtg 180
 caggagcaga attgcaatta tcaaaacatc aattatatta gttaccactt atcaacagtt 240
 caacacttgg aactttngtt aatngaaaat ccctaagtat tcatttttgg ccacagttgt 300
 aactcaacaa ttntccagat ttcagatata gaaaggcaat gcacaccaag ttgttgatgt 360
 ttctgatact cttcaactca ttggtttcat gaatntccag cagatcagct tcagttntta 420
 gacaagagta ctgcacataa tcttctatca gatcatttgg ngggggcatc aattaca 477

<210> 29736
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29736

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 taaatttttag ctaataataa ataatagcta gagaaatagt gtaatgatag ttgggtggaa 180
 tataagggag taaaacattg agagatttct atcaatgacc atgaacaaat tacacaaata 240
 aatttgatac cacattaatt caattcaaaa ccttanaaca tttggattgt gagtctcatt 300
 ttcttgatg atattcaact tgtccactct tattcaattt gngattntat atttcatacc 360
 aacctttcat gcaatattgc ctaatggcat tngngaagat tcacaagtag agact 415

<210> 29737
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29737

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aataataatt gttaacttat tgacaaatac accaaattgt cacaagtaat aaaattaaaa 120
cgaaagttcg aatgtcgaat ttacaaagat tttggttgta ctttagttaa tatataccta 180
atttghtaagc aagagataag aaattgtaat agggagaaga aacaaaaaat tgtaattaaa 240
aggcaagaac aagaaaataa acaagaatga atgcacttga taatttcaga atttaaataat 300
ggtaggggtct agcatgccca actatccttg atgcaatgtt aaaatgggtc tctatttaaat 360
ggtagtntaa ttntcattca catttactan aacactcaac tctgatccct catgatgaag 420
agttcagttt atgtattctc tcttctaaat ttct 454

<210> 29738
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29738

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tttcctcatc ccttgagcta acttttgga ttgagttagg cccaaaattc acattctgag 120
atggatcag agccctagcg ccttcctttg actttcgac acagacccta gcgtcgttca 180
acccttttct ttttcttctc catcaccatg tctcactcaa actctatctt tcacattgct 240
cttggtgtct ccaacatcaa gaattatgtc ctaatcattc ttaagatgga aaatgtccaa 300
tacgtgacat aggtgaact tttcaaacc cggtgagcat tttttctcgt tgtctctctc 360
anatctcttc ttttacctta tctctctcaa atcacttccc ttaccttacc ttcccttcat 420
c 421

<210> 29739
<211> 373
<212> DNA
<213> Glycine max
<400> 29739

acttttgga ctccgatacc caacctggca cttaaataa gttattttgc caaatgggtt 60
taaagggttc cacccttcaa cccaacacaa tctaacttaa attctagaaa aatgaagtgg 120
acaccacaat tagcaccoca ctcatccttg atttatcatt gttttaaaaa atcctacaca 180
cttttaaaat tctcaataa atagaataat caaggttacc aaaattcata ataaaaaaag 240

gtcattgatg atcccccttat tgccccattt tatctaacgt atgatggtga atatctaaat 300
 tgatctttga agtatgacac acgtactata tatgtaaaat ataaaattaa ataagttttt 360
 gtcactttgt cat 373

<210> 29740
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 29740

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 gaatagcatc agcataatct gtcgacttaa tttgtagaag caatgggttaa gatcataagg 120
 tagtacatcg tattttattg gattcgggtg aggatgtaga tatgcaaatt aggttccaaa 180
 ttattctacc cctcttcaat ttgtagtatt atgttcatta gttaaactca ttggagaaaag 240
 cgattcatgc agcacaaatc tggcacctat tcttctcctt agataaacat gcagtgatat 300
 ataaaacatc gtgcattata attctatctg aacatgtatg ttgagatact atgggagactc 360
 ttgactttct agttcgaagt gtgatgggat tctctgaaga tgggaaatat attatatcat 420
 g 421

<210> 29741
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29741

tcacagatct tntgtgttct tcacattcca ccaaagatt atgtttgctc attttgaggt 60
 ctttataatg tttgtctgct tgtgcacatt ctctctgtag atcatgtctt tcttcttttt 120
 cataatcatg aagttcatta agctctgtca gatccttttg aagatctttc agtttgcttt 180
 acaaggcttg aaaagtcttt aacagatttt tcttggcca ttatctcatt ctcaagacat 240
 agcttggact ctttctccta agagtcacac ggctttacat gtctgagtgg actcatctgg 300
 tgatacatct acttggctct gaaggggttt ctcacgtcta aaatgatctt tgaatagt 358

<210> 29742

<211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29742

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nggggnnggc tggcttgatg actcgcaacc tgcccggcac gggagcctgt acaccgggac   60
tgtatgcatg caagctgcag ccttcgactt ctgccacatt ttctatgcat aggcgataag  120
agaacggata acatgttcac ccctctgggt gatttgagat cacttggagg gagtgaaaaa  180
catcatctcc gtgaagaaaa ctccaggccg aggcgctttc ataacgttta ctgagcattt  240
gcgcttggga atgcgtgaag attctcaacc attgcttaac gttcttcggt cgcgctttcg  300
tcttcaaccg gtaagtccgc gcgaatcgaa cgtttcgatt gacttcatgt tcccttagcg  360
gcctcatttg atctacgtgc tattatttca agatatctac tgatcgcaac actttgggcg  420
tgcattagcc attaacttaa gtcactgtgt tcgactactc tgaacagctt atatggctac  480
cctggccaat cgtagtggtg                                     500
  
```

<210> 29743
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29743

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cggccggtgt gacncccttg gaanancnga cnttgatacc ncatgcatct acgcgacacc   60
ttnnnaaacc tcagctttca tcacggggcg tataataatt aaccgccaag aagtttgctt  120
atcactccga acttgactag gtataacctt ttgaataaaa tgaacttgtc ccatgggttt  180
actccaaaag tcaatgcgaa tcaaatcatt ctgcattttt atttctagcc tgccctcata  240
tgatgcatcg cataagcatc tcttcatggc atcataatga acatatcgtg cctgcatttg  300
gccggtatca tattccaaca tcacattntg catgagtcac tggtcatca tgcatatgcc  360
gtcaacatac gttttggtct acaaactgca taccttggtg ttggatatat tcatgatgca  420
ttctgggttg catatatctc ggaccatgag cccaccatgg tgggatcata naccocgttc  480
acttanaaac aaaatgagtg aacatggcac cctatggcat tgttaactan gaan       534
  
```

<210> 29744

<211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29744

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 ttaatggtga atttccaccg tggagatgct gcggaagaca aaggacaaga ggtgagaaga 120
 tgcgccatgc actaaggaat aaacctatgga agaaggagct tcaccaccat aagcagcctt 180
 agatatgaag cttggataga ttgcttcatg ggggatatga aagagggaga gaacgacaga 240
 ggggggggagc gcgaatttgg acgaataaat ganggagaga agttgaactt tgacttgagt 300
 ctcacgagac tat 313

<210> 29745
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29745

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 gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120
 tcaccncat gacaaaaaac atgaaaatac caaaaaaag tccttactac aaagactact 180
 caaaatgccc cgaaatacaa gggctaaacc ctatactact agatggcaaa atacaaggcc 240
 caaacgaag aaaaacctat tctaataattt acaaagataa gcgggcttat acttggccca 300
 tgggctcgan atctacccta aggctcatga gaaccctang gccttccttt ggatctctag 360
 cccaatctac ttggagtctt ct 382

<210> 29746
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29746

attaagcana ggcattcaca ccaactannag gggagganag agcggaaatg cttggctctg 60
 atcaacattt agatcccaat attgcatccc aacaactcga aacattatca aagctctaac 120

cagtagttat tggatgctag tatctatcat tgccagaata atgtagtaat caacatgtat 180
atgataataa tatacaatat ctactttaag ctagcacact tgccgcaact aacacaagtg 240
actctgaggt gagtaagctt gactagaact acaaattatg aatattttct atatctaaac 300
aacatgtatc atttattgga tataattatg ttcagatcaa atgggattag aacaccagtg 360
acaaaactct ccttatg 377

<210> 29747
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29747

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cgggtgtaac ctgcactagt gtaagagttg taagtttgtg aggcattgtct agctccccta 120
tcttggacga cttgtgagta tgcttcttct gacaagttgt attgagagga catgtgtttt 180
gatcttgaag catagatata cgtgtcangt ggatgatgtg cttatatatg acaattcagc 240
cctttgatga tcattggagg atgcattgat cacgaatgta tcgctctgtc tataactaca 300
tgcgagtgca acacacacat attactctag catcatgctc actcatgaca tgggtgttga 360
ctagatatgc attactcggg cgtgtggagc tgcattcatc nttatagg 408

<210> 29748
<211> 442
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29748

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caccaatcgc gcataaacct accataccct gttgccacc tacaactgag ctcaagtact 120
cccacgtagc ccatatactc gtttctetca acaccgggtg ctcatcaatc ctcccaagct 180
agcccaacat ccaagtaatt caacattcaa acaacacaaa ctatcacagc gcagataaca 240
gggcagaggc taaaaactct gcccaaacac caaccaaact cacagctttt ctactttaa 300
gaccccagta acaattcctt cattccagtt cgttaaccgt tggatcgact canatgtttc 360

actggaagtc tgtagtacat agacctagca tttgaccggt gcgatctagc attaaacacg 420
 cacaacgcat tctgcatcac tc 442

<210> 29749
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29749

agcttatgcg tatactccac gaacgttcac ttgcacaaga cattcttata actaagaaaa 60
 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120
 gtgtatttgt tacctatatc acacacattt cctttgctaa attcacatac atgcatactc 180
 taagcacttt ggctatcaaa aattgcatac gtgcacatcc tgggtatttct aatacctata 240
 catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300
 tttntctttn tcaagtgttt ttactaccta nagccgcatg caaattcaag tatattntct 360
 tttgtctcact 370

<210> 29750
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29750

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 tgataacggt ggaatttatt ttgggggaga gttgtgtttt gttatgaact cttccttagt 120
 tggctccttg aatctttctg attgggcata ntaactctaa gtttagatat atgtaaaaaa 180
 atctgaatta tgttctgaca tttgaaagat gagtagtggg ggaatatata tatatatata 240
 tatatatata tatatatata agcatgtatt tgctcacgtg tttgtgagtt gttggatgaa 300
 tgtacatcac acaannatta ccatcgttnt cacaatcaaa ttaatgggag tttcacttat 360
 aaattgaaat gtcacatttt tatagtagtg attgtagcga caagacgggt cgttacagtg 420
 gcac 424

<210> 29751
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29751

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 gccattgcct ccctcgccca gtattatgat cagccgttga ggtgcttcac ttttggggac 120
 ttccaactat cacccatggt ggaagagttt gaagatattc tgggatgcc actgggagga 180
 aggaagccat atctttcctc tgggttctat ccctccatga caagagttgc caaggtagt 240
 aatatctcag cacacgaagt tgaccgtgta aagc 274

<210> 29752
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 29752

accttgaatt aatacctttg atagcacttt tgagccttgc ttccctttcc ttggtatgaa 60
 gctcactaca agccttaagt gataaacctt gatattacca tatccttaag gaattttgga 120
 gctttggaat ggatttggga ataagtgtgg ggggtttttg tttcattgga caacttgttt 180
 tgttggctat gcttcatgat gtattttgcg ccatacttga tgtatattgc atattggtta 240
 aatgctggac atgctgaatg aaatgttggt tcctaaaggc taaagagt 288

<210> 29753
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29753

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 ttagggatca acttgaaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tggttcanac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcgctggatg 360
atattgatat ta 372

<210> 29754
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29754

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aaaaattcac gtattacaaa tttaagaact aaattgaata ttatcaggag cctcggcagc 120
cttaattnta accaaacaaa gttacgtact aaacaagact ttgaatgcct gcagatnttt 180
ctcanaagag ttgtccgcca ggtaacactt tagtgactnt ataagaaaat tgaacttgca 240
ttcgatcacg anaaaaatga gaactaatnt gaattatatt aactacttat atcaaccctc 300
gtcaattnta tctacatatg catacaagtg taattagatg agtccgatcg ggtctgagcg 360
agggatcaaa attacgtggg ttctgttagg gttggagaca atatcttcta attaa 415

<210> 29755
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29755

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tgcaatcact cgacgagggg tggggaatnt tgaaatgaga gacagaaggg tatnttact 120
gttgataggg gctaattgca aaagagttag gggccaatag caacacccaa actcgnttta 180
gaatacaagt cataatcctc ctgattgggc cttcgagtaa aagccattc acaaaatgga 240
tgcaaacaca gttttgaaat gggctttgta gccagggtcca aatctgaagc agctgctatt 300
tttggtttgc atctctctct ctctctctnt cttcgctagc caactcaacc cagtgcagcg 360
agtaaagctt tctctctctt gttccttcgn nggetatggt cttcttctac cttcgcgaa 420
tggattc 427

<210> 29756
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29756

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 ttactatttg aataatttga ttttttttta aaccagattc catgcaagca tatacaatca 120
 tgccagtaat ttatgcacaa ttgtcaaaaa ccaatcgtac aggaaaaaaaa actattcatt 180
 ctgagcaagc catgcctcaa ttattatttt ttcattgtcaa atcagataaa aaatagcttt 240
 taattttgca taaacaatta tgtgagcaac actactcctc tcataatata aatatttgat 300
 tntggttgcc catagaccat aggttttaag gcttgaggg agcagaatgt gtcagcttca 360
 gatcagcagg aagcaagttc actattttgt tntacttatt ggaacagaaa ggtatgtgtn 420
 tgatgggcca catgggtccc tctgtatctt gat 453

<210> 29757
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29757

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 ttcttctaac ctccctcta ctctctctct aattactttc tccacctttt ggtaaataaa 120
 ttttaaggaat tttctttgat gaattcaacg ctccacgact aatttaccac cctaatttaa 180
 agtattcatc atacaatttg ttaactcattt tttcgcaatc tattattaca agagtctatc 240
 atgaaataat tgtgctttta aatgaatttg actaatctaa ttcccaagta ctgcactgat 300
 ggactatatg atgttggaac tcatgagggtg ggaatttttag aattgcacct gaatagaaaa 360
 gcatga 366

<210> 29758
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29758

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atattaataa cgagatgaat tggattaaaa aaatatattc atcaatattg gtgtgaagca 120

tgtaaatatt gaaatgatat ataactaaag aatgagaatc ttttggtatg tacaaaaaga 180

aaggagataa ggaaaaaaga aaacaaaaga caaaacgagt ggaggactgt aaacggaaat 240

gagcggagtg ccaaataaca tttgtggngg cacgatcaga aattntaatc cattgaaact 300

gatttctttt ctttntctga ggaggagggg aatggaaaaa agaaatatga gtagccaaca 360

cagaatcana cttgtccctt annattttta ggggataatg ccatgacaga ttttaattntt 420

ctatttttgt catgaaatcc ttcacatcaa taattgatgt attatttgaa ataa 474

<210> 29759

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29759

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tgcctaacta attaatactc cagattaagc aagtcttcat gtaattaatc atgtattgag 120

cataagcaat tatcgactga ttaccacac aattctagcc aactatatt tgattcttat 180

atggcccaat taatttatag actgagttgt catttacttg cagatattct cagatctgaa 240

agctcagatc ttgtcatcac agcgtatttt cttctcactc taacttcana gtcgggctat 300

aaatttttaa ttctctgttg tttatctgga tacagatcag atatcgngga tatatgctga 360

gagaattcac ctctcatttt cacacatgac 390

<210> 29760

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29760

atagcttgct ataaactcac acaactgact tagagaantt aaattttgta attgtagtta 60

aatagaaaga cccaattgaa aactaacata agtttaagaa cccaattaaa aaaattcaga 120

tacttaatta aaataattgg tcctccaaa ttataatfff ttagtcctc aatctcaaaa 180
aaataatfff ttagtctctt ctgacttatt ttttgcaatt tggatgaaca cttgggggtga 240
tttttaacca taggagggat tataaaacac attntccaaa tttgatgagt taaaataatg 300
taaactttat tttgagaaat aaaaatacaa tgtcccaaaa ttttaagagat aaaaaatatt 360
taaatntaat aaaaaataat caaatagttt caaaatctgc aaaataatff aacctanaat 420
aaagacatca ttatcttatc cccttttggt tttcactcg 459

<210> 29761
<211> 400
<212> DNA
<213> Glycine max

<400> 29761

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ctacacatgc tcccttgctc ttcatagaca ttctccttct cttcttcctc acctcactat 120
aataaccaga aatagaaaca gataataatg cacacagtat aaaaaaaaaat acaacgagaa 180
acaaagatga aacaaatgca aaaaaaaaaa gaagcaaact ttacagcttc tgtggcagcc 240
agccactacc ttgttcgttg ggggcaaaag aggaagaaga cccactaagg cccccgcctc 300
tttaaatcac aaacgaaatt cagaacaaca cttataagtt ataacaacca aaaacggctg 360
gtgtgaagta tgaacaaaat ttataagtca aatctatgga 400

<210> 29762
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29762

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taagattctt atatttacca atagttcact ttgcctaata actttgcaca cacgcataga 120
aatcagtatt tccaaagtcc taaaatttgt gattgcaata ttaattttta atgctctttt 180
tcagggaat atcagcatgg tatgagaatc gtcattgggt taacacttta tgcaagacag 240
tgatggagca agactggtct tggaatcgcc ctgcacttga ttatctggag ctttaccatg 300
ctgcacgtaa gtcagcatga gatttaatat acatgaatta agtttcatcc tctttgtaca 360

catntttgtg gtaagcttca gtttgaacac acttgattgc atctggtgaa tccttcaaaa 420
agataacaac tacgaggtga anagccataa aagatgatga gcttc 465

<210> 29763
<211> 423
<212> DNA
<213> Glycine max

<400> 29763

agcttctttc gattaatgaa gatgataata ttacatgtta ataagttgac agttttaagt 60
gtcttgatgg cttgtggcac aattaagtct ttgctatttg gaagagaagt tcatgcacag 120
atgattaaaa gtgatatcca taccaacata tatgtaggaa gcactctggt atggttctat 180
tgcaaatgta aagaatactc ctatgctttc aagggtgctcc aatatatgcc tttcacggat 240
gttgcttcat ggactgccat tatctctggt tgtgccaggc tcgggcttga acatgaggct 300
ctggagtctt tgcaggaaat gatggaagaa ggctgtgtgc ctaattccta tacttactcg 360
tcagccttga aagctcgtgc agaactggaa gctccaattc atggaaacgt aattcattcc 420
tac 423

<210> 29764
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29764

aactgaaatt tctttatcan aattacatat ttataatact taacagatga taagtaatat 60
taatcatatt tttttcattt gtaaaaaatt aaactcacat attaaaagat ttacaatttt 120
caaatacagt gttcaattaa taaagttaaa cccgttaatg ataattaagt gtagatagaa 180
tgatttcata tattttattct gtcaaaaagt ttttattgaa tataaaaaatt ataacataag 240
gattatgttt caaacaactt tnttctcttt taagatgttt tcatactttt ttactagtta 300
aaaatgatnt tattnttttt atncaaaca aattaatgaa ctcaagccac tttttacaaa 360
cttactccga caattttttt taattataat ctatataaca ataattttca ttatcatata 420
actaatatta aatatttaatt t 441

<210> 29765
 <211> 278
 <212> DNA
 <213> Glycine max

 <400> 29765

 tctttctcaa tccaaggaag tatgcattgg aattgcttga agacagtggg ttattggcta 60
 ctaagcctag gacaactccc ttgattgct tcttgaagct tcatgaccgt gactcacccc 120
 cttatgaaga tgaaacagcc tatatgagac ttgttggcag acttttatat ttaactacaa 180
 ccaggcctaa cattgctttc attgttcagc aacttagtca attcatctct cagacattac 240
 aagttcatca ctcagcagca attatagtcc tcaatatc 278

<210> 29766
 <211> 307
 <212> DNA
 <213> Glycine max

 <400> 29766

 cacgttagtt gagtcacaca atcaaattctc tcacagcact cttaccaaat ttaccttaata 60
 tttaggtact gaacataact tacattaagc ctctgctatt ttactattgc tgttcattaa 120
 aataatttaa gagaaatcat agtaaattctt aacaagtga aatatttata tgttatgaac 180
 caattaagaa ttataatata tataattctt aagataagtt ttaattatag ctttgatccc 240
 taattaatat ttaattgttg gatttaattt ttgtatttaa ttctataata aatatttctt 300
 ttacgac 307

<210> 29767
 <211> 320
 <212> DNA
 <213> Glycine max

 <400> 29767

 tcatagacgt tcaccttctc gtcttcttta acgcactgca atcaccagaa atagaagcag 60
 acaataaagc acacggaatc aaaactcgat acgccgagaa acacagatga aagagcggca 120
 tctctatcag gaccgcccct ttgcacagtc ggaggaagcc acacgctccc tagatcgatg 180
 ggggcaaaaag aggaggatga cccactaagg cccgcagctc gctgaatttg atgcgatact 240

cagaaccgca ctgtaatagt aaaccagcca gacacgagat gtgcgagaat gagacacatt 300
tattagtcaa tctatggagg 320

<210> 29768
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29768

gcaatctata ttacgctcaa tcctatacca taaacnctcg acctgatcgg atatcataaa 60
aggacaccta gacganatca agactacnct ccactcgatc agatctagat ggaaccctct 120
ctagattcca ttacatctac ataaatcaga tttgcttaaa ttgtctgctc tcttcccgtc 180
caagcccaat tacttataat actcctggag taaattaaaa acacagagtt agtcccatag 240
gccccaacgc ataaacctgc taactaattc gacaatcaac actaatccag cattaaaatg 300
gcgcccacag gggtacaaat aagacacaat aatggccctc actttggcga agcgctccaa 360
acacactttg tgacccattg tgcttcatnc caaatatcag gcttgcttgt ttaccattca 420
actatcactt cttgatgaat gtgatgt 447

<210> 29769
<211> 235
<212> DNA
<213> Glycine max

<400> 29769

tcaagcttat gccatccctt atgatataac taaactcgtc cgaacgaact tagatatata 60
tatgcacatc cattggacat tctcttaatg cagcacggac gtctatgttt gttcctgatg 120
aaaatccaat ggaccatgca cacgatggga actttgggag taagagaaac aaagactgat 180
catatgcaaa gacacatgaa ggataactaa cataagtcag ttctttatat acact 235

<210> 29770
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29770

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 aggatgttgg ctcagggatg taaattctga aattgtttta tacgacttta ccaggggaaga 120
 tggatgttag tggagaatca gtctatgtgg tatagggttc tgcgatggga agttgcatta 180
 gaagactcan agttcatctt ggtggaagtg agctacatgt ggggtggttgt gactcttgat 240
 tttattgaga ctgtgaagaa agcagttgga gatggaagga gactccgttt tggttggagc 300
 catgggttgg gagagaggct ttggagggtc attatagatg actcttttca tcttacttgc 360
 ttatctgatt ctaaggtggc tgaaacttcg gtgagaggag atggagactg gtgttggaat 420
 tggtggaaga gggatctttt g 441

<210> 29771
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29771

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 tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120
 ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc anaccaaca 180
 atgtcattac tcagtcaata acaaacctcc tccttaccba ccaccagtt atccacaaag 240
 gccatcccta tatcaaccac aaagcctatc tatcgactt ccaatgacga acaccacctt 300
 tggcacanac cacaaaaaca ccaacaaaaa ggaattttgc agcanaaagc ctgtanggtt 360
 cccccacat tccgctgtca tatgctaaac ttgatcccat atccactcaa taattcaatg 420
 gg 442

<210> 29772
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29772

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 ntccgagagc ttccgctgct caatttcgag cgtctcgata tattatactc ctgaatcgga 120

cctccgagtg aaaaggtaag accatttgaa tctctcgaga gcttacgatg ttcaattttg 180
 agcgtctcga tatattatgc gcctgactcg gacctccgag tggcaagtta tgaacatttg 240
 aattttctcga gagcttccgg tgctcaattt cgagcgtctc gatatattat actcctgaat 300
 cggacctccg agtgaaaagt tatgaccatt tgaattttctc gagatcttcc gttgctcaat 360
 ttcgagcgtc tctatatgtg atgcgcctga atcggacctc cgagtcacaa gttatgacca 420
 t 421

<210> 29773
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29773

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 ctctgagtcg acctgcttta tgcaagcttg atttctctta aattgncaaa caatcagctc 120
 tggggggccat cgccacagtt tggatcattc cataagaatc cttcaagcct ttgtacgcac 180
 tcaaggcttt gtgggaagcc tttgaacact acttgagaag aacatcctga tgatgatgat 240
 cctacgaaag aacaatacca ccatgatatt gtttatgaaa ccatagtaac tatactggta 300
 gttagatctg caagttctat aggactaact gtattactcg ttatcaacag atgtgggaaa 360
 tgacgagtat taatatgatg cttgcgaggg atcgcgatgg aactaatanc aaattattct 420
 aatgtcaaga acggcagtggt tactgtctaa aaaacatcgg tgcttgtttg tagtgatgca 480
 acgtacacg 489

<210> 29774
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29774

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 ttagctatnn ccgngacact ataaaanact caagcttgta gcatggctgt acatgatata 120
 tgtcacagtg ttcgcttgcg tctatggcac aaggataaag ggcgctgtcc acattatttc 180

catgacacac catgccacac tgatgattct ggatattctc ttgcaaaacg tggatcatgca 240
 tgcaccccat gtggacactc aatcataaaag tttctatggc catgtgacac tacggctcac 300
 gattcattat ttcctaataca aggcaaccca atatctctca aatatgcttc tttatcaatt 360
 catgcattca tcccagtcga tttgcgtgtt cacgaaaatt ctacagcact tacccttcag 420
 gtgcatacac atttttcttc aaaaactggt gttttgatcg gtgaatcttt ctacaagaca 480
 gggcggacgt tattttcttc aaaagcatgt gcctttcacg ccaagacata tctttgcgtt 540
 tttctc 546

<210> 29775
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29775

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 ttggaatgag attcataatg aagaaatcaa ctacaatttt gcataagcca aagggttaaag 120
 cagagagaat gtcccaaaaa agtagtcaaa tgctagaatc tccctaggtc ttcgctagct 180
 caagagattc cttcaccaac gtctaaataa agtttccact agaaaggaaa ccgtcaacta 240
 gtttctttcc tttcaaaaga gtacgtgcaa tatctgatag tgacacaatt gctgtgcgac 300
 tacccttct caatacaact ccacaccatc aaattatatg caagacaaaa atgagaggta 360
 atacgccaca attaacttaa catatcatta aata 394

<210> 29776
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29776

agcttggttac ttatggtaaa cccacctcca caaaagacta cgtacataaa gaaatggngg 60
 tgaacttaag gattaattga gacaaattga aattgggatg cctatgtaca cacacaaaaa 120
 aaaaaagatt tagtttaaga aattattaga acgaaattaa agttatagat atttatttgt 180
 aaaagaataa agtttgagca tcttttttaa caagtacact tccgtatact gctccttaga 240

caaatcaata cataaggata ataattatga gtcatttccg aaaactgtga gtattttcgt 300
 ttattttatat tggattaagg ggattcacat ggtacaaatc agatacgtag tctcttgtaa 360
 aaaccaaca agttttcctg tcatctaata tgcatacact tgttaattat gtattgttac 420
 a 421

<210> 29777
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29777

tattactnta ttacgtgtnt gagaatatat atgcgaagta ctattttattg taaggaaata 60
 catatgggtgc atgatatatt gtgaaatgct attagaatgc aaagaaaata tatacgaagc 120
 actatatatt attaaaaaaa gtaccaaact acaatctata tatataaaaa aagactatgc 180
 caaagntatt actaatttat tacttttctt taagaaatta aaaggaaaaa aataatatga 240
 aaattataga taagcagaan aaaaaatcat aaataataca attttatata ttccaataaa 300
 aaatcatggg ttagcattnt tcttcataga aagcgctatt ttttttggtg attattaaaa 360
 agaaagaaaa gatattaatt taaagaatgt taaactatgt aagtgttaatt aagaggatct 420
 aatttaatta gttaagtatg ataggtgagt gttataaatc tctttatatt ata 473

<210> 29778
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29778

agcttcataa agttggcttg tgaagttccg gcggtgtcc tcacctcgaa tgcttagaaa 60
 acatcatatt ttttagttga cagcatagaa aaagagttag acgaagaagc aacagcacta 120
 atcatttggt gctcaactgt tatgaattcc tagtgctcca cctacaatga ttataacact 180
 aaactogaag aaatgaaaaa ggctntaaca tttcattntg ttcttgacac ttgtctgcaa 240
 cactgttcat acaggacatg caggataaca ttgttcanac agaattgggg tcaaataggg 300
 ttgggacacg tggacaaggg ggagttaaag ctgaagagtg tatttggacg tggttggtga 360

ggtaaggggt tggcaatttg ttgcttttagt atctaagaga ggagagagag aatct 415

<210> 29779
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29779

cactaagctt gcgtttggta acaacttaac taactttctta ttgaacaagt gtttatcata 60
tctcatataa acgcttgtgt ataagcgctt tttataattg aagtggaaag aagtaaagtt 120
aaactggttt catataagct ataagttggt ttcctaaact atcttgaaga gcttatngaa 180
ataaacagaa aacagctaata aagcatatct taaacactgg tttcataagc tntctcanac 240
actaacacaa agttcatgag agtaatatat gtccttccta caaattcttt actgcttaata 300
tcctataagc tcatgtgcat gataagttca caagggattg attaattctgt ttacctaaat 360
gtcacagggt ggtcatgatt aggggtatnta tacatcagta taatcatacc taataaataa 420
ctatattata agtgggtatt ataattataa ccataacttt ggttttaaat atgggtatat 480
aacta 485

<210> 29780
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29780

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gcagtttgac attgtctaac aatcactatg tacaactgga atatattggt cttttaaatt 120
tttataattg aggatggatg agcttgacat aacaatggta aggttattgc cttgtgattt 180
ggagctcaca atttcaaatac attgaaacaa tctctctgct ttagaggata tatctgtgta 240
catctatcta cctcctccag gttccactag gttggagcct catgcattgn gtcaccgtta 300
atttctatta ttattgntat tcctgcatcc ttcttttata tgcaatgcta tccttaattc 360
aaataagggtg gatttcagag ttacaaaagg aatcagacaa atgtttgaag agttctg 417

<210> 29781

<211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29781

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gcgtagccca ccatcttttc atagtagaat agcgataatg tgtctaccat cacgattatt 60
atctcccttt ccatcattgg gggtagcact tgggctgcc gacccctcca cctttgggcg 120
tattctttga aagatctgtg cccttttttg cacatgttcc gtagttgcat cctatccgaa 180
gacattatac tgacactgcc taacgaaggc aaccattagg tccttccaag aatgaactcg 240
agaaggttcc aagttagtgt accaggtaac agctgcccc gtaagacttt cttggaagga 300
atgtatcagc aatttctcat cttttgcgta tgccncatc ttccgacaat acatctttag 360
atggttcttg gggcaagtaa gt 382
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<210> 29782
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29782

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agcttgcttg tggggcttct atgggtgtctg gatctttgag cttcaatgag gtcctttaat 60
ggtagactttc caccatgaag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120
catccacttg ggaataagcc atagaagaag gagcttcacc ataaagatga gccttgata 180
agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtatgtctca 300
caagactctc attcatcana gttataacaa gtgttacaca tgcttctatt tatagactag 360
gtagcttcct tgagaagctt tcttgagaaa acttccttga gatgcttctt tgagaaaaac 420
```

<210> 29783
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29783

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agcttccaga attatgacct catcaaacta cttgtttccc gagggaaatt ctataaatag 60
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acctcccatc ttttatggag tgggttacca ctattggaaa acccgcatgc aaatctttat 120
agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
agtggccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
attagtacaa tataacttaa aggccaaaaa tattattaca tctaccctan gaatagatga 300
atactttagg gtttcaaaat tgaaaagtgc taaggatatg tgggataccc tacaagtaac 360
acatgaaggc acaacaaatg ttaaaagatc taggataaac acattaactc gtgaatatga 420
actggttagg atgaatgtaa atgaaagtat acaagacatg caaaagaagt tcacacacat 480
ag 482

<210> 29784
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29784

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aaacatagaa aaaggcctca attcatgggt caagcttgag gtttcttaaa ctagcacaaa 120
cagtacctaa aacaaaacta tcaactgcacc aaaagagatt tgacatgccc caccaacata 180
ttcaccggat attctagtta actctaaaag ttgtgagacc aaacattttg gacggaagac 240
atctganact aaaatactgt aaaagggcat gaacctgttc taaaggaata aatcacacca 300
actgttcaaa gacaggacat gtctaacttc cagcaagtag atttttagag attntaaata 360
tcctttcaag ctaatttctt acctntact agttacaaat aagagaatgg cttgattcaa 420
tcctgtaca t 431

<210> 29785
<211> 312
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29785

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ctgtatttca tcttngcatt tggtttacag ttatgcagtt agaacatctg gcctttatat 120

ctcaaattct attgaatata tcccagtgaa taagggatat gcggatatca atgactgatt 180
 tttctgcttc tctattaatt ttccatcttc cttgggttga tattcttcta nggtggttgg 240
 agaatcaatt ctttctctct ttttcatgct taagaattaa tactaaggcc ccaaaccaaa 300
 acattctcat tt 312

<210> 29786
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29786

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 caaagaagcc ggtgctctct ggctctgaaa agtagaccca cccaactaac gctatctaag 120
 tataaataaa caaaaaaat atatatgaga gaggaacaaa acagggttta ttaaacagtg 180
 tttattatta ttattattat cagaggaaag ggatgaagtg gtccttttgt gagtctcttc 240
 ttctttcatt ccatttttga tacactacta ctactactac ttgcagcagc agcagcagca 300
 gcttcttact gactngttaa tcaatcttct ttctttaatt tctttctttc gagtttcatg 360
 ctctttgtat taatattatt cttcttggtt ttct 394

<210> 29787
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 29787

ttaagcttca taagttagct tccaacaagt ggtatcagaa cacaagagct tcaagtaggt 60
 gctccttaaa cctccactaa ttttcagctt tactttctcc tccattgatg attcttcggt 120
 tctctccatg tatctcctca cgtgtcttgc gctgaatgtt gttaacataa ttttttagaa 180
 gttccaccga ttaagcttgc tatagaagct agatttgatt ttctatgggt caaatcctt 240
 gctcttgatc ttgaaccatg aattgtgttg agtttaggtt cttttgagtg ttatatatgc 300
 aattattgtg gctgaaacct aaaccataaa aatcttacca aaacattaaa gtagaagaag 360
 acctcaaaaa tctagaatga catattcacc tat 393

<210> 29788
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29788

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 cacatgaaat ctacactata aagtgcacat tctcctcttg ttctcaccaa atagggttatt 120
 agaccagag gtctaagact gactttgtcc acactttata attatTTTTT atcgtgtttg 180
 tatctTTTTT gtgtatgcta gatccatgag ccaaggaaca aaacccatt catggacctc 240
 cattgcagat ctactcagat ggaattcgtt gaccatgtct catatttctt tgccctctct 300
 tttatgcttt gccgtatncc ttgttctaac catggccaat aaacatcttc aagctgcaac 360
 gaccatgatn tctttgataa ctatataagg aaaatttcta cctcttttgt attgtaaata 420
 actcatttat aataacatta catgataat 449

<210> 29789
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29789

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 atgacaatca agttcaagtg tggtgtttat aaccataaag atcaagactg agacaagggtg 120
 atctgaaaga acttctactc tcgaggaaac tgtttttcca acctcatcac taatccttga 180
 ctcaatcatg cgagcatggg gaacgaagta aaaggaaaat gtttggatat gatagcacat 240
 gccaacgcgg tgagataacg gtgtgaatag ccttaaaagg ataaaagtga cgatgatgga 300
 caatcacgtt tagcatcacc tttttggata aaaaaatgca atgattcaac attgttgaaa 360
 ggcagatgga attcgttcta cttgaatcta 390

<210> 29790
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 29790

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ctttgaacag caatgaccat caatatgata tttgtaatct tacagagcaa cctgaggatc 120
taaaagggtgg ttcttttggc ccccatcagc ttgaggcact gaactgggtg cgtaaagtct 180
gggtataagtc caaaaatgtg atacttgctg atgagatggg gcttggaata acaagatctg 240
cttgtgcttt tatttcatca ttgtattttg aattcaaagt ttcacttctt tgctagggtc 300
tggtaccact ttctaccatg cctaattg 328

<210> 29791

<211> 326

<212> DNA

<213> Glycine max

<400> 29791

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tatggccaca gctgaagctt tggaacgaga aaccaagaac gcccgaagg aagaacacta 120
ccaaagcata gttctgatgg gctttatagg gcaacaatag tgagcctcaa gctccgaaga 180
ggtgaaagga atcttcacgg gtcaaagcga tgatcttgaa cgacgagcta aagggttgcc 240
ttatgttcaa aagaaatttg cccaacagta agcgagactg aaagaatatg tgggccaatc 300
tcgataattc aaagaaagct aaatta 326

<210> 29792

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29792

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cttgtaagga actttgggtt gcagcttttg cccactagc tattacctag actctgcaac 120
aacgggtcaac atcggtgaca ggagcacgta ctactaaat ggtggcccca ctcaagtgtg 180
gttaggtgag gaaatataca aaagggtggt gagactgcaa accagtacga tggggacatg 240
gaggatatta ggaagcaaag cctagcagca taaattcacc atgtagggga ggcaggtact 300
atgctntctg atgaggaggg aganaagatc aacaaaatcg acaagaaaag ggaagaaagg 360

gacacacact agcagacaca t

381

<210> 29793
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29793

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gttgcccca ttcttctatg tattaaaagt caaaattcat taccggccac caggtatgat 120
gggcaatggg catgcacagt gtccatgttt caagcacaag gggctcttgc atgtgtggga 180
gttagataca agagttatcc atgtctcttc attcacccaa caatttaagc ttttgggaga 240
gttagtttat gacaaaatct atctatcttc tgatgtnta taatcatgct gataatgagt 300
catgttgcct acagataccc acttaaaaat ccaacatacc tgagaattcc aacgcattgt 360
ctttggaaaa tgaaatttag caatagtagc aggcaaactc tcagacaaaa cctaataaga 420
gtagaacana tcagcagcaa taaaatgtgt a 451

<210> 29794
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29794

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atcatatgct gacaatagcc gagaagccca tgaatttctt cgggggcgga gtaggtgtct 180
gccatgcct tggccttggc taacaatcgg ggcagttctt gactcccggt caagggaaga 240
gcaaaccgat ccatccacat ggttgctctt tgggtgtaaag agtcgatcac ccttcctcta 300
gcctcttttt ccggtatact cgggcatact cttncgtaac cctatgctc 349

<210> 29795
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 29795

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 aatcaccatt aaaggacctc attgaagctc aaagatccag ccccatga agccccacaa 180
 gcaagtttcc atcacatata tcctatcatc taatgattga cacatgacaa tgaatctatt 240
 aaaagttact acaagttctg agaaataaac taacagtggc aaataggatt gatgggaaaa 300
 ggatggatgg tactgtcagt ggggggaaag aaaatttgtt ggggtggtgt cacaattgtc 360
 catcttatta ttagaaagtg ttgttgagca attc 394

<210> 29796
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29796

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 tatagaggca atagatttaa atatttggga agccatagaa caaggacctt atgttcctc 180
 tatagtggcc ggaagtgcaa caatagaaaa acctagagca gattggactg aggaagatag 240
 aagattagta caatataatt taaaggccaa aaatattatt acatctgccc tangaataga 300
 tgaatacttt anggtttcaa attgtanaag tgctaaggat atgtgggata cactacaagt 360
 aacacatgaa ggcacaacag atgttaaaag atctangata aacactntaa ctctgaata 420
 tgaactgttt angatgaatg taaatgaaag tatac 455

<210> 29797
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29797

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attgtggagg gttatgagtt aagttgggtg aaaaaaatta ggaatgtttt ttatggctctt 180
ttgttgtaat gttattggga gnttttttcc tagtgttttt tgtagtcct cctgggtatat 240
gcgttatagt ttcatagctt gtgatgggtc gaatgctntt ttgggggttat tttgttgctt 300
gtcaattctt ctcgtaatta tcgtctgggg aacaatcgaa tgtgtgaaat ttagttctac 360
acaaattgta aattcac 377

<210> 29798
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29798

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ctaagttagt tatcgtccaa tgatcacaga gtacacgtat acacatcatg aagttgatca 120
atgtttctaga aactgtttat tttcattccc tcataatttt tgaaatgcta atcatttgaa 180
gttcaagtgt atattgagac aggttggcaa aaaggtatat tctctgcaga ctgttgctaa 240
taaaagtagt ggaaagcata atggaaggga taatactant tttacctttc tctctccatc 300
tcaagttgcc atgttgcatc attaccagct atgagagaac anatattttc gtgaaggcac 360
ttaaattcac aacggtcaca tattttctaga tgaccaagcg catcaagaaa caactttngc 420
aatctgt 427

<210> 29799
<211> 224
<212> DNA
<213> Glycine max
<400> 29799

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tcatatcctt cttaacaatc ttcttggagg actcctattg ctctttttcc ttacgcttgg 120
tctttgaaga caaggctotta ctatccttct ttttcttttg catttctagt gtttctttct 180
tatccctctt agtcttcata gatagctgat ctttgaccat ctgt 224

<210> 29800
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29800

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 aaagcctata ttttgtgtct acaaggtccg ccataattaa tacataggat tatgaactca 120
 acataggccc attcttgtca tgcaacatga caacttccac actatgctga ataaccacca 180
 agcaccctca acttatgtgc ctactcacia caacaacaac aacaacactt ggatttcctt 240
 gaagtctgag aaacgacacc ttcgtacctt ccatctcact catggctagt cttaatgatc 300
 caagcttcac aatcaacaac aattcacccc atatacacta aaatggtcac taatgctctt 360
 atgagatagc cttctacact ctga 384

<210> 29801
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 29801

ggggaagctc tttttcctgg ctattcccta acggaggcgc ctctctcac ttttttcctt 60
 tggctttcgt gcatctccat ggtggaaaat caccattaaa cgacctcatt gaagctcaaa 120
 gatccagccc ccattgaaac cccacaagca agtttccctc acatatctcc tatcatctaa 180
 tgattgacac atgacaatga atctattaaa agctactaca agttctgaga aataaacc 238

<210> 29802
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29802

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 tttttccact ccttcgccgg tgcaaggaaa gcctctaact aaatttcctc tattttcgtg 120
 atgatagtct tgtggttcat agtcataagg agatttcaaa tgtagttggt tcttacttca 180
 ataacttggt tcaagctaata aacaattgta atgcttttat gcctattatc aataatattt 240

catcctgtat ttcccccttaa aataatgacc tttttttggc accctttaca attgaagaat 300
 ttcaagctac cattttttcag atgaactcaa acaagtcacc atgtcctaac tgactcaatc 360
 cagcatttag aaaaattgca tctttatgga caagaatttn tcactctggc atcact 416

<210> 29803
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29803

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 gttatgaagc tcactacaaa ccttaagtga aaaaccatga tattaccata tccttaaaga 120
 attttgagc tttggaattg ctctgggaat aagtgtgggg ggtttctgtt tcattggaca 180
 acttggtttg tcggctatgc ttcattgatg attntgggcc atacttgatg tacattgtat 240
 attggttaat tgttggacat gctgaatgaa atgttgtttc tcaaaggcta aagagtaaaa 300
 aaacaaattc gaataacaat aatcgaataa agacaaagat agcaataaag ctgagtgata 360
 agatcttaat ggccaagatg ataaactctt ggtcactctc atgttcatct tatcttactc 420
 ttctatctct tattcttctc tcgatatgca ctat 454

<210> 29804
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 29804

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 tatttttttg tacataaaaa ataaaaaata aagactaata tttatctaact actactatct 120
 ttttatattc tttagaatgt ttataaagtg tttaatcatg agatctggct gaaagtcaaa 180
 catgactcgc atcttttaag taaagtctca aatttttaatt ttatggaaag aaaaaatata 240
 gttagaaaag aaaatttcac taaagatgac ttacttaaact tttttgaaga acattaatta 300
 ttatcaaaat tgatggatag tttactcaat gacttgataa caaagaaaaa acttgacaaa 360
 agagagagaa gagagatgga aagagcatat taaatcctta tatgttataa actaataaga 420
 caagatcatg 430

<210> 29805
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29805

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 taatttacct gtacacagtc tgcatttacc atacgtgctg tgctatataa tatacagtag 120
 tattttcgag tcatacaacc caatggtagt gacccaatca attaaggaca agagnttgat 180
 aggacagaaa ggtattgtga caaggacaac gccagaaga caaaaagata tgcactttta 240
 tatgtagtta taatacgata gcttctcttc aagaacttta ctgggtaatg gtattttttt 300
 taagcattaa ctaagttcta attttctaatt ttctttcgaa attaacttct tttcctaaca 360
 cattattttt ctgggtaatt ttttactttt ttatcaacta actaaaattt tgtttgatta 420
 gtaaag 426

<210> 29806
 <211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29806

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 atagcatgtg taacacttgt tgtaactttg atgaatgaca gncttatgag acatacttca 120
 aagttccact tttcttcctc ttttattcct tcaattttgt gtcacccct tctctcttcc 180
 ttttcatcca ttttaagcatc ctcttcaagc ttcgtatcca agcacattct tggaggtgaa 240
 actccttttt ccat 254

<210> 29807
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 29807

tgatgcgcc cgcttcgact attttacgcc atgggacgga tctttaagat cctccaattt 60

ttcgactatc attagacccc tgaggaggaa cgcacatctg ctgcttattt ttatatggat 120
 ggtccagctt aaatgctgat ttcattggctg caccaccacc atatgaccac ttccttggac 180
 tcctttgctc acgcgctcca gactcgcttt gccccgacat tttatgatga ccctcacagc 240
 aactggcca agcttactca acgacgctcg gtgaacgatt acctccacga gtttgaacag 300
 ctgcggaacc gggtcacatg tcttcccccc tccttcttgc ttacctgttt 350

<210> 29808
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29808

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 cttcaatcgc ctctccatac tgagtttgc ctatctcatg tggcttgtgt ttttcctttg 120
 taagctctga ttgttctttt agcagaggag ccctcaactt atggtagctc ggaggattca 180
 attgttgacc gtaatctcca acagcttcaa tcatcatctt aaagccttta gagcatgcaa 240
 cctcgaaagg aatttcattc tcacggatga attgggcaat gcacgatta gctttagccc 300
 ttgctntttt aatactagca tcccttatac atgttttctt cttggccatt ccaagagtga 360
 gttngtttga tagttcaata attctcagcg tattcatatg tccat 405

<210> 29809
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29809

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 agttatcttg gntatgagag gggatatgtg agctaagctc tagcttctca aggacagttt 120
 ctcaaagaag cttctcaagg aaagtttctc aagaaagctt cttaaaggaag ctacctagtc 180
 tataaataga agcatgtgta acacttatcg gtactttgat gaatgagagt cttgtgagac 240
 atacttcata gttccacttc tctccctctt ttattccttc aatntcgtgc tccccctctc 300
 tctgtctctg cctcttttctt ttactccatt gaagcattct ctccaagctt cttatccaag 360

gctcatcttg gtggtgaagc tccttcttcc atggcttatt ccttagtgga tggcgctcc 420
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<210> 29810
<211> 152
<212> DNA
<213> Glycine max

<400> 29810

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aacaacattt atcaacactt atccaccaac tataagtctg gacaaatata ttaatctgtg 120
tgggctgaat gagaagattg tcaacatgct ca 152

<210> 29811
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29811

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aatatgatca ccacctgaa tctctagcag tcttctacac ttatcttcat aaggattatg 120
tgtactatgt gaagttttta tgctatcttg aatcaactta atcctctctt cggtttgttg 180
caagaatctt ggggccccac gaccatattt gcaccatctt ggtaacaaca aaggggtggt 240
ctacacctcc taccatataa agtttcaa atgtgtcatgc caatgctaga atgaaagctg 300
ctgttgtacg tgaattccac caaagggcaa acctgatcct atctacctag atgatccac 360
acacatgctg gcaaataattg tctaatagact atatcgctct ctgggatt 408

<210> 29812
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29812

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ctaactaact ccactaatat atccagtaac tactcagaaa gaaaggatgg acttaatcga 120

ttaagcccat ctaatctacc taattaaact aattacacaa agcaaaaccc aaattcgcag 180
 cccaattatt gaactgcaat gattcttagc tccaagccca atttgaccog cgaaatggca 240
 aaatgtccaa gcttatctgc gaaagataat acaaaatcga atccattctt ctgatctttc 300
 caagaactac tcacatgctc cattc 325

<210> 29813
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29813

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 ttgatgaatg aaagtcttat gagatacact tcaaagttcc actcctctcc ctcttttatt 120
 ccttcaattt cgtgctcccc cctctctctt tctctccctc tttcttttcc tgcattgaag 180
 catcctctcc aagcttctta tccaaggctc atctttgtgg tgaagctcct tcttccatgg 240
 cttattccct agtggacgac gcctcctctc acctcttcta ctttttcttc cgctgcatct 300
 ctatggtgga aaatcaccat tgaaggacct cattgaagct canagatcca gcctacatag 360
 aagctccaca agcaagcgtt catcataagt atttattacc tatatttaac t 411

<210> 29814
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29814

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 tcctactggt ctatggtaat cgattacagg gagtggtaat cgattaccag acctaaatca 120
 aggctttctc tacaaatcta actattgctt actcctaaaa actacatact cattgtatct 180
 tttatctacc acaatcagag atcaataata gactttgaaa aacaagcatt ataaacatct 240
 taactacaac catcaagcac aatcacaagt acaaataac tcaccaaatc aataatcatc 300
 aaatcataca caaagaanat cattaagccg caatgtacaa ccattatgat tgtcaaaaca 360
 caaacaaga taatcattga caatcattca atcattatga ccatcaaaac acaaacacaa 420

tcataaaaaa agaanatata aattaacaat

450

<210> 29815
<211> 356
<212> DNA
<213> Glycine max

<400> 29815

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aaaacttatg tcagagtttt cgaaatgcaa gtcaatgtct tgcttttata gactcttcat 120
gtatgggtcaa gaaaaccatt ggaagagtta taaccttgag aaaaacctga aaaccatagg 180
aagagttaca tcttttgatt attattcaaa acttgtcact ggtaatcgat tacctgaacc 240
atgtaatcga ttacacacag cattttatga acatatatga ctcttcacaa ttgattgtga 300
atgtcaacga tcagatacac tggtaatcga ttaccgatat attgtactcg attaca 356

<210> 29816
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29816

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agaatatgta ttcccatata ctgggggatat gttgctggag tttctaacaa agaagcataa 120
agctgggaaa gaagtgatga tttgcccttg atttagtggt gtgcttgata aaactacaac 180
aatggctttc gaagcttcta atttgcaaga attatcagat aattcaagac gttgatgctt 240
aagggaaggg aaagcaaaaa atcaatatga ctgtgagtca agtgcaaaaa ccatacaata 300
tttctcaaag aaggtctaca tatgtctcac atgggtggaag tccttcgaat agatggactt 360
gacagggaca tcaacaagta ttgatgataa ccattaagct gaacaattat gtgcctcana 420
gagatggaac tac 433

<210> 29817
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 29817

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taccaattnt gctagctggt gatgttgcac catagttttg ctatgtcatc tacctttggt 120
ctcatctctt taccttaciaa ttcaggcaat tctatcatta ccctttttca atatataaaa 180
ttggcaacat gcaaacaatat ctaatccagg agattccacc actaatagtc agcctataat 240
ccataaccaa tgaagtcccc catctccaat ttattccatc ttctaanttt attgtagttt 300
ctgcagattt aagataagcg ttgggttctt cggntaaca tanatctatt ngttagttta 360
taattcacc c aattctgcct ttagtcattt tcaacatgca gaac 404
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<210> 29818
 <211> 404
 <212> DNA
 <213> Glycine max

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<400> 29818
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agtactttcg gcacctgcta tatgttgact tgaccaacgc tgttatgggt atgctgcgac 120
aatccttcaa caccttattc acacattctg agaggggttg tgtcatgtga ccatatcttc 180
gtccagatgt atcataagcc atgtccattt ttctcttga aatgcgatca atccatgttg 240
ctatggctgg actcaattga tgaaatcttt ctaagtcttg atcaaacaca tgcttgcaag 300
gagtgtacgc tgcataatag ttgctacat caaaagttgt aggtagatat gaaactaaaa 360
ttaacttcat gtataacata aaccttacc aatttcttga acat 404
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<210> 29819
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29819

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tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
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agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg anaagctggt gcgaaagatc ctcagatcct tgcctaagag 300
 atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaactcatt gggtcccttc aaacctttga gctangactc tcggata 407

<210> 29820
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29820

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 aagatgaagt tgccttcac ctcacagaaga ttcacaagat gtggaaaaac aaaggtgaat 120
 ccagatggaa gaactcctca aaaagcacgc tcaatgaana gaaagataaa gacaaaagct 180
 ctatagtatg ctatgaatgc aagaaacttg gacacttcaa atttgaatgc ccagaacaag 240
 acaagtctca agacaagaag aaatactata agaccaagga aaagaaaggt ctcagagacc 300
 cttgtaaaga tctagatgac acctcatcta atgaagaaga agccaacctt tgtctgatgg 360
 cagatagtct ctgaagaatc taaatcanat caagaggatg aggtaactct taatgatcct 420
 aaatctctta nnaagcttac aatgaactgc tatcaaactt ttccattctt tcacaagctt 480
 ac 482

<210> 29821
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29821

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 tcccactcca agtaggcctc cggatcattc tttcctttaa atggaggaat gttgagttta 120
 ataccatcaa ttcggttttg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180
 tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
 ttcattaacc tctccaaatg ttgcatcaaa gcttgcatctt ggaattgcga aagccccact 300

ccatcattag gattagtagc tgacatctca nacaacacaa tcanacgtaa caagacaatt 360
 atagttgctg tttgaatacc tcacccactc aagtgtatca cacaattatg gctnttctct 420
 aatga 425

<210> 29822
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29822

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 accatttgaa tttctcgaga gctttcgttg ttcaattttg agcgtctcga tatattatgc 120
 gcctgaatcg gacctccgag ttaaaagtta tgaccatttg aaattcccga gagcttccgt 180
 tgttcaattt cgagtgtctc gatataattat gcgccagaat cagacctccg tgtgaaaagg 240
 tatgaccatt tgaatttctc gagagcttca gttgttcaat ttcgagcgtc tcgatataatt 300
 atgcgcctga atcggacctn cgagtgaataa gttatgacca tttgaatttc tcgagagctt 360
 ccattgttca atctctagcg tctcgatata ttatgcgcct gaatctgacc tccgtgtgaa 420
 aaagtatgac catntgaact tctcgagagc tttccgttgt caatttcgag c 471

<210> 29823
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 29823

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 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcataggc ctatatatat 120
 gtgacttgag acacgaatat gctaagagtt tttcagaaca aaaagggtctt attctcttat 180
 agagcaaaat cgatttatcc tcttacggat cccttgggca aattacttgt gattcaataa 240
 cgaattatctt gagggtctca attgttcaat ctatctcttt caagagagac ttcttctttt 300
 cttcttcttc attctaaaaa gggactaaga gaccgatggg ctcttggtgt gaaagaattc 360
 taaaca 366

<210> 29824
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 29824

aactcctacc gctgtcaaaa acctaacaaa ttccgccatt tccggcattg tccgcacccc 60
 ggcacgaccg ccattgactat ggcggcccg atcccaaacc cgcaacgcca ccgctattcc 120
 gtggcgtttt ttgaaaatc cccacgaaa aaccgccatg gccgccattt aacaacactg 180
 ggacatgata ttcgattgtg aataagtga tgtgctaaca cttgatgtac attaattata 240
 ttgcgagcta tgaattatac aataacccga ccagtgttat gcgcagtgtg aagagaaagt 300
 gaagttccta ttaggaaccg gtgtaaatcg agcgattgt gtaaacaatgt ctgaacatga 360
 gt 362

<210> 29825
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29825

agcttgacca atttctcgac ccaacctgtg catagtcggt cagtgagaac ctgtgatgta 60
 cctaaacagg cgagctcctg gcagtcaaca gataaaagga acaaagacca caaagcaagg 120
 aggcttgtgg tggctggcca gctgtgaatt ctgtgtgata tatgggttgt ggcctctggt 180
 aatcgattac caagggtggg taatcgatta caaggcttaa aaatgaagac aggaggctaa 240
 gatggtctct ggtaatcgat taccaagggg gtgtaatcga ttaccaggct tgaaaatgaa 300
 gtcaggaagc taaggagacc tctggtaatc gattaccagt ctgtgtaatc gattacacag 360
 aggaatgggt cactggtaat cgattaccag gtatgtgtaa tcgattacac agtgcatttt 420

<210> 29826
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 29826

atatttggtc ataataataa tgggaaaatt tgccaattta ttgaaaatat atgggttacca 60
 cataaaaatg gattttttta atattaattg gttaaaacta tgaaccacct taactattta 120

ttatcaaagt atctgggaaa ccttaactta atggtaaaag aagtcattct ttcattatat 180
 attaacagga aaaaaaatcc acaggaaaaa aaaattcagt agtacataac ttgatctatt 240
 tggcttcttg ggtggttctt cttaagcatg cccattggaa tggtcctaata tatatatcta 300
 ctc 303

<210> 29827
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29827

agcttgaaat tgatacaacg gaagttctcg agaaattcaa atggtcataa cttatcaccc 60
 ggaagtccga ttcaggcgca taatatatcg agacgccga aattgaacaa cgaatgctat 120
 caagaaatta aaatggcat aacttgtcac atggaagttc gattcagatg catactatat 180
 ggagacgctc gaaattgaac aacgaaagct cccgagaaat tctaattggc ataacttgtc 240
 acacggaagt ccgattcacg cgcatactat atcgagacta tcgaaataga acaacggaag 300
 ctctcgagaa attcaaattg tcataactta tcacacggaa gtccgattca ggcgcataat 360
 atatcgagac ggtcgaaatt gaacaacana tgctctcaag aaatagaaat ggtcataact 420
 tgtcacacgg aag 433

<210> 29828
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29828

actaagcttc tcgatatatt atgcgtctga atcggacttc cgtatgataa gttatgaaca 60
 tttgaatttc tcgagagcat ccattgttta atttcaagtt tctcgatata ttatgcacct 120
 gaatcagact tncgtttgaa aagttatgac catnttaatt tctcgagagc ttccattggt 180
 caatttcgag cgtctcggtta tattatgcgc ctgaatcaga cttncgtatg aaaagttatg 240
 accatttttaa tttctcgaga gcttncattg gttaatttca agcttctcga tatattatgc 300
 acctgaatca gacttccgtt tgaaaagtta tgaccattnt gaattctcga gagcttccgt 360

ctaatacctg ggacccgtct atcaacttcg agcaagaaat gagtcaaacg gaagat 416

<210> 29831
<211> 406
<212> DNA
<213> Glycine max

<400> 29831

taagcttcca attttttaag ttattcctca aaactgtcct acgcaaagtt cccaaagtcc 60
tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtggttgaa aacaacaatt 120
tagtgcccaa cttgctccac aaagtcctcc aaaaatgcaa atcatcaagc ctaggtatag 180
gatgcctata tttaatggtg atgttattaa gggctctaca atcagaacac atgcgccatg 240
tcccatcctt tttagggacc aaaatcactg ggacagcaca aggactcata ctatctctta 300
cccaaccttt gctaattgagt tcatccactt gtctttgaat ctctttggtt tcttgtgaat 360
tacttctata ggctggccta ttgggcaaag aagctctcgg aatgag 406

<210> 29832
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29832

ntgcgaaagg cttgtcgctg gagctgaccc atcaactgcc ctatctctnt cagtactgtg 60
attcctanga tcttgacctt gacttgatag aacctctctt taagcgaaag cgtctgactc 120
gatcccatgt ttactaaag tgaacaaaa tccagtgcga atcanaactc tgacatctat 180
catgggtgga atggatgaat acatgaagaa atgcatatga cacagatgca ttntatgaat 240
acgggagcnc gggaaattgt ccccttctta gatacaacat tcgggcagca tcgcgcccga 300
cgtatgcatt taagatagca acacggaccc tctgtcgggt tgacaaagtg aggggatcaa 360
gacgcaatcc gtggatgatg cagatgcgaa aggcaaca cggngatgca tatagtacga 420
caatatccac anatatagta catg 444

<210> 29833
<211> 397
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 29833

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agctntgctt gtatcttcaa tggagaatga agaagaagaa aatggcaacg tgagggagag 60
agagagctgt ctgaaaaagt gtggggctga gtgaagagag agaaaagctt tttggtttta 120
aataaaaggg ttttctcttt ttctattatt ttatttaagc aatgccacat gtctccattt 180
gagtggagca aaaaggcccc actttccctt tttgactgtg acccatactc agtcacaaaa 240
gtgaggaaaa tctgaccttt gaaacgctaa aatcctgcct cggtttgctg gctgtttctc 300
tggttcagtt tctcgtgtt tctctgcgtc tgtcanggcc agttttcgaa agtacgcaat 360
atatatatat canaacgctc agaataaaac cccgagc 397

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<210> 29834
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29834

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nttcgattca ttctatgtac ccgtagtggt ccacattggg tttcgtgcaa ttttattttc 60
gntntgggta ctttntatac cccctgggtga cgtgcttaag tcattttact taagtcattt 120
ctcgcttaac ttaaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta 180
acttcgggta aaatgaattc cgaccgtttg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aaataatata ataataaaaa aaacatcttt tagtaaaata aagcggaaaa 300
tcaatcggac attntctctt tgggatttct cattcttaat cgaatcgatt aataactaaa 360
gtgaaact 368

```

<210> 29835
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 29835

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ttagcttatg acttttatta caagccttta tagagaatgt gggaaacaca aattaaata 60
aaaatatata acgacttata aactagatgc atttatcata aaacatcgct atctaccatg 120

```


ttatatattta tataaaagagt attaaaaatg cacaattaac tattttaaacc ataagagtaa 180
 cgtaaatacag ttataaaaggt gttgacaatt taaaagctga tatatatcag acgaaaccta 240
 tttggtgtat gtatttgga aatttcattc ataatagttc tttgctaaat gcaatcatgt 300
 tagattgtaa agcaaaagga aagaaaaaca ttatttataa aaatatataa gagtcaagct 360
 aaaagacaag tagtgataga tacggaattt tgcaatgaat tacggtataa c 411

<210> 29836
 <211> 161
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29836

aagtgggcct ggttgctatt tgcactccca ttattactac atacaccctc atgccttttt 60
 ttggttatac tgatcagcca agttacggaa ccttactata ttctnnnnga tacttggtat 120
 ctttccgtaa tgggtacagaa ccttgcatgat tacattatca t 161

<210> 29837
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29837

agcttacacc ttgtttattg tttttttcct tatcaagcca tttctaactc tgaaaaatca 60
 aaaaatttgt ttaggctaag atgcacatag acaaagctaa caaacatata atctaagctc 120
 actatctttn tctctcaaga tatacaagat attttgagag cttttccagc ttagaaagat 180
 tttgaatgca aaaagaatga aggctattaa tattgcttag atcaaaattc ataactagag 240
 ctttttggtta tttatagatc ttttcaacag gtaatcattg tgagtaaagc accttctatt 300
 tgtgggtgat ggggtcatcta tagcaaagt atgttgggag cattaaatgc gcgtccactc 360
 tgagatgata aatactatgt gtatctttct tgagcaaacac ttctctgga 409

<210> 29838
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 29838

tcagactgaa tatgaaacag tgtctcatta agaagaaact ctctgtaacc aaaatgccag 60
ggaagattgg gtgagggttag ggagtaagaa ctcagctttc tttcatgctc aaactggtgc 120
tagaagaaca agtaataaga ctcatgggtt attccttaat gcgtgtatgtt gttgcaataa 180
ctgtgatcaa cttcaagctc atgttggtga gttcttcaag aggctgaata gtgttactga 240
aggtaacatt atgcatgtat cccttcctct tgccccgatt ctttgtgggc aagactctat 300
ctctttccca ctagatacaa aagagggtga tatatgctct gcagagcatg aaatcttatg 360
agtctctcac gccagatggg tttagcctct cttctat 397

<210> 29839

<211> 403

<212> DNA

<213> Glycine max

<400> 29839

agcttcaaga tttatggcct catcaaacta cttgtttccc gagggaaatt ctataaatag 60
aactcccatc tttaatggag tgggttacca ctactcgaaa actcgcatgc aaatctttat 120
agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
aatagccgga agtgcaacga tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300
atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360
acatgaaggc acaacagatg ttaaaagatc tatgataaac acc 403

<210> 29840

<211> 213

<212> DNA

<213> Glycine max

<400> 29840

ggaatcggac ctcaagtgtga caagatatga ccattttaat atccttatag caaccgctgg 60
acattatcca gtgtctctat atgtgatgcg ccttaatcta acatccgtgt gaaaagttat 120
gagcatatgg atatctcaag agcttccgct gaacaatttc gagcctctcg acatattatg 180
cgctgaatc ggacatccgt gtgagaagct atg 213

<210> 29841
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29841

agcttggcctt atttcgtgaa gagatatcgc ttagcggata aacaatctaa aaatttttct 60
 tagtcattnt ctgcttatct cttcactcat actttaaaaa ccctttttgt tcattaatac 120
 acaagctgaa ataaatcaca atcatcaaca agatgtccta actacatgca agaaataaaa 180
 ataaagatac agaagggaaa gaaaagctgg gttgcctccc agtaagcgct tctttaacgt 240
 cactagcttg acgcatcatc ctattatcca ggatccatta aagttcccac ttcaagcacc 300
 ttcttctcaa gtcttctttc ctccatcaca tgaactttaa aatagacatt ccagtcaggt 360
 ggctctntat cttcatgaaa tagatcanag ctgattnttt gatcttctat tcccaattgc 420
 aacatc 426

<210> 29842
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29842

tgagcttcat tcgcagatcc ctcatgtaag actacactcg atttagatag ttctcttagg 60
 tttagactaa gtttaactga gtttcatctg tagatccctc atgtaagact agactcagct 120
 caagtagctt actaaagttt agcctaattt agcctaagct tcgtctgcga tgggtgtagtt 180
 tttaggaggg ggtggcttgc ggtgggtggcg gnggacagtt ttgatgatga ggggtgaagaa 240
 gctgacgagg aaggcataga caacgagagt gccaagtgtc tagatgaaga cctagcgact 300
 aacaatgatg cagcccagat atatgtacct tttcttcttc tttntatggt ctcttttgcc 360
 caagagccag ctatgttggg tctcatccaa agcacctcgg tccagctcat ggagattcgg 420
 tggcggagtc tatgggtgtga atctcaagca ggctcccca cagatcccta ctgtgcatac 480
 taatt 485

<210> 29843

<211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29843

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 ttcataagag aagaaagtag cggattccag gtatgcttaa aaaaagacta ttcaagttca 120
 caagtttagt tgtttatctc cttaagattg ggctggctct cagtttattg aatggatttg 180
 atttttgcaa gatcatacct cgaggaaagg gtagctaaaa gtgcatataa aaaatgccat 240
 gttttttttt tctgttagtc tacaaccaac cacaagtcaa tcgaatgaat tcttcaagca 300
 aagatatcag aaagactaag aaagagatat gcaatttaca acttggtgtc tactttcagg 360
 aaatgttcgg agtagaacac ttacaataat acaacgtcgt gttctccaga gatg 414

<210> 29844
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29844

agaacagtac gttgcagggc gcgtcaacac tcaaaagtgc acgatgaccc taggntgtgt 60
 ttgtgcgaaa aaaacgcgac gcagaggtag cggaggctcg acaatgtacc cttccttttg 120
 caaaactcac ggtggtgcaa gggagattga gctcaatagg agatgccgac tgatagcaca 180
 attttcagat agtgatttct aggtacgtgt gttcaattag cgtgcaaggg ggacatatat 240
 gaaagcatgt taacgacggt gtatntgaaa acccgtcttt gagagtcaat atttctatga 300
 tgggtgtttac aaatacaccg tctttgataa gtcccggcct aaccaacata gatgggtgta 360
 gcaaaaaacg tcgttgtaga catcacgcgc catgcacatt 400

<210> 29845
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29845

agcttggagc tttcttacta catttcgctt atacaacagc ggggtgtataa gacattcaaa 60

gagggatttg aaccatcttt gtagccaacg tctttgagag ttaagacttt ctacgacagt 120
 ctcaagaaaa accgtattag aaatgaatat cattctaaga tgatttttaa ctacaaaccc 180
 tcttagaaga gtactcttct aagacaatta ttcagagAAC cgacttaaag ggatattctt 240
 ctgagacgga tgttatataa gaacogtctt agaaggtcgt agaagggtac ccttctaaaa 300
 ctgtcttaga atgggaccct tttaagacga ntatctgaag aaccatctta gaatataagt 360
 nttttaaaaa tataatgaca ataagatctt agagctttgt caatatacat tgtgttttta 420
 taatgc 426

<210> 29846
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 29846
 gctttggaga acattctgaa gttctagggg cctgatgcta ttgccctca ttttactaat 60
 acacccttgc ttttttgcgt atcttttccg aacgtacaga acttacaata cgaacgaagc 120
 tttttccttt gaatgtacgg accttacgat acgaatctcc tttttgcctt cgaatgtaca 180
 attttacgat gccactaaca ctcttt 206

<210> 29847
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29847
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 tcatttcaaa gcacattgca gaatttcaat gaaaagtac ttgttattac aaatagaaaa 120
 gttatatttt gttaattac aattcaaaaa tattattcat ttttgaaaag taattacaaa 180
 tatacctttt ttagaagtaa ctcaataaaa cttctcaaaa taatcagaaa tatatttttt 240
 caattttttt ctcaaaatat caaatgaata cattaaatat tttaataata atattttctt 300
 tttcaaatga aaaataactt ttcataaaat ataaattaa cagacggact tgtaattaga 360
 gatattgtcc gccttttagt taagcttcag agtcattaat ttatgttcat tatgttc 417

<210> 29848
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 29848

ccattgctac caccaacttt aggttctacg acttcaagct taagaagaat tgggtcagct 60
 atcacttttg tcaagacatc attgacagaa tcaaagtaat gatcaccttt cacaaggttt 120
 gttcttgaaa actttttaac acccaggaaa agaaaggcca ctaaattttt ggagctcaga 180
 gaaccttgat tcttttagttt ctccgagttc taaccttttg ccaataagcg aggccaaaca 240
 gcttcctaga agatatcatt acttttggct ttgcacaaat tggatatccc cagtcaaagt 300
 cttgattata tcaact 315

<210> 29849
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 29849

agcttaagct ccttggttgc tcccttctta gctcctcgga atttgtttcg gccccattct 60
 tcctttcggg ccctctttgt ttctcgttcc aacgcttcgg cggtggccac attgatgtct 120
 cttagtttgt cgcactctct tcagaccttg atggctgtcg tcttgaattt tttcttgacc 180
 gcttggtgcc tttcaagttc cacctttaag gcttgacact cttoctctc cttagggggt 240
 tcagcctctt gctcacttga aacctttatc ttcgggagcc aacctaacct ttgcatctga 300
 gcctttattc agttgagata gccgtatgtc gcaacctacc gtattgcggg agggcgacgc 360
 gtgactcgcg ggatgcgtg 379

<210> 29850
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29850

gaatcaacct tgtttgtttg acattgtcaa caaatattga ccatggtgag caagcaattt 60
 caaacttctt aactcatoga acccttgctc agaaggcaat ccacgagact cctccatgct 120

tccatgacat aatcccatgc atttttttta cccacaaagg ttttatattt tgccttcaca 180
 ttcttatcaa tgtgaaacca acacaacaag ttggttgact tggggaaaat agttttcatt 240
 gcattcatca atgttgaatc tctatcagta acaataactt gagggattgc atcacgtctc 300
 agaaaaatac ctcanaacca ttntagagcc canacaacat ttgttatacg ttttccttc 360
 aaataggaaa atgcagctga aaatgtcatc ctaattggtg tcataccaac aatgtcaagt 420
 aaaggaagct tgcattctggt tgttttggat gactat 456

<210> 29851
 <211> 298
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29851

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 aattgtactc ccagaagaga ctcataaagg tctcccttaa ggcgcttggt tctgcaacat 120
 acgcgcctgc aaactctacc agatctcaac attctcaaga cagttcatta cctgtaactc 180
 taagattgat tnttcagaat gtagataagt ttggagggtga catttattat tcagctggta 240
 ctggtatgag cgatataatc cacanagatc caacctgttt ttctgctctg catgaaat 298

<210> 29852
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29852

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 tggctgggtg aagatcctca gaaacacctt catatactgg aggaataatt aataaaccaa 120
 ggattgcaca ttcttgtga ttccctttca agccaaaagg aattagaggt ggttctgcac 180
 ctccacgagt ttgatctatt gcaggataaa tagagccatt attatttttc tgcagatcag 240
 tttcttcagc ttgttgatct tctgtacac agcctgaaac agattgagta acaactaagt 300
 caaacttcag aatangaatg atctgcaaat tatgaattgt aaaacagcac tatgcatgca 360
 ngggattttt tgctctcagt ggggtgtcaat cttaat 396

<210> 29853
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29853

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 ctttttataa tttaaagtaaa acatataatg ctaaattatt ttttagttaa gatatccaaa 120
 tatacaaaaa atatattagt tattcaaaag taagtatgat atgattgtca tattttgtct 180
 ttttattagt ttatttttct catctaaaca caacattagt tttttttttt taaaagcccg 240
 ttagttctat ttaggatgca aataacaaga tcagacaaat aaagtaagtt gaaggaagat 300
 atagagagga tgggattgga atagtagaga aatntgaaa ggttgcaaga ttaatattat 360
 atatttaana tagatggaca gatatcactt 390

<210> 29854
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29854

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 nacaaaatgc aaggctgcta ctaggtggat tgggtgttaa gtaagtcatt taaacaatgc 120
 ttctaatttg tattttatta ttgtgtagac taatttgtac ttaacattga atatccaaat 180
 ttcataatgt atctagtgtg atagacaaaa aggaatcact gaatgcaggt attacgttat 240
 gcactggatg tcaactataa tcttagtaag tttcaagaat aattgtgaaa agataattgg 300
 ttaattcaca catatnntca ttttttgtaa ttgatattat atattattaa cttatgtctt 360
 attatatcat gcagtatttc aatgatgcta gaccattaan accagagaga ttgaaggcac 420
 ttcgcatcta gtgggcaaac tact 444

<210> 29855
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 29855

agcttattcg ttgcccttg aattgattgc caagctctgt tcgttcatga atcctccgcc 60
gaattgattg cctaacgctg ttcgtgcatc ctccatcatc aaatcttatt cggagcccca 120
tgaattgatt gccgttcatg catcctcccc attgagtcgg gagccatacg aattgactgc 180
caagctctgt tcatgcatcc tttatcatca aatcttattc gaagcccat gaattgattg 240
ccattcatgt atcctccacc attgagtcgt gagcccgccg aattgattgc ctagtggtgt 300
tcgtgcatcc tccaccatct tattcgtagc cccatgaatt gattgttggt cagcatcct 360
ccaccattga gtccgaagcc ttacgaattg actgccgagc tctgttca 408

<210> 29856

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29856

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caagaactct ggatntgggc cgaccatgcc ctctgattt ccagctggga aattggcggg 120
tggaggaacg ccccggcatt tacacaaca gcataatgta aacctttacg ggtttaaaag 180
ctctatagtt gggcctaggc tttagagttt tcatttttgt aaggctttgt gtcttttgtc 240
tttgaatnta taatacaaag atctttcttc atctgttcct ggtctctacc cattctcatt 300
catttgcatg tntacttctt tntctgaaac ggcagatccg atgacgagtc ccncgaaggt 360
actaatcct gggacccgtc tatcaa 386

<210> 29857

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29857

agcttgtctc ttagaggtcc aggaaggaca aggcggccga aggaactagt tccgccccgg 60
agtacgacag tcaccgcttt atgagcggtg tacaccagca gcgcttcgaa gccatcaagg 120
gatggtcgtt tctccgggag cgacgcgtcc agtcagggga cgacgagtat actgattttc 180

aggaggaaat atggcgccgg cggtgggcac cactgggttac tcctatggcc aagtttgatc 240
 cagaaatagt ccttgaatth tatgccaatg cttggccaac agaggagggc gtgcgtgacc 300
 tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
 tgggatatcc gatggtgttg ga 382

<210> 29858
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29858

tcanaccaa gcaattcana atctaggtgt ctaaaacccc tcaatttagt ggattntcaa 60
 ggtttgaaaa gtgaaaatga aaatggggta attntggagc aaactctcat ctcaaacaag 120
 tctataacat taatctaaac ttgctcaaac tagttntacg acgaanactt caccgaatca 180
 aaatttgacc cctcaacacc caatttacc tagaaatggc tcttgctttc actttgggtca 240
 ctcatthttcc tcatthtgctc agtccaagct tccccacaag tcctaaatga cattntaaac 300
 taggattaac tcactthtaga ctcccattta cactaacccc aaatttagct tctctaacccc 360
 tcanaatctc acactthttct acctacaaca ttgtcattct cacattthaac cctaagtaac 420
 thtccccctc atctcta 437

<210> 29859
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 29859

tatcatgcaa gcttggtgtha tgtctatagc accccacctg acgtcccca ggtctcctga 60
 cccccgcgac atatctccag gtaccactct gtggtcaaca ataaaagcag gaagthttcac 120
 ccttcaacac ttctcatct caagcttgta ggattatggg gtaccatca catgtggtac 180
 taagtggcag acgggcgatg gtgcacaaca tgtthttccac atccacaatg cgcgcataaa 240
 cccaccatcc gctgthgccc acctgcaact gaactcacgt actcccacgt agcccatata 300
 ctgthttctc tccacaccgg tccccatcaa tctcccaag cthttcacagc atccgatcag 360
 aacaacattc aaacagcaca agcta 385

<223> unsure at all n locations
<400> 29862

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tgtgatgcta cttgggtttt tgggggtggg tgtttacttg actgtactaa gaagtgaaat 120
tgagtatttc gtttttattg catgatacgt tttcttttca tcttggcatt tgggtgcattt 180
gacttatttg tatattcatg atcatccatt aaattgataa tgtgtattct tgttgagat 240
ttgtttttaa agatggaaag atggtgtcgc aacatgccct tttgcggg 288

<210> 29863
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29863

ttggaaggta gtcatacctc acaaaatata tatatatata tatatatata tatatatata 60
tatatatata tatacatata tatatatata tatatatata tatatatggt tagggagaaa 120
gataccttgg atatgcatgt atgtagcaaa aaaaatttca caaaatatat atatgtatgt 180
ttaggtagca agataccttg gatatgcatg tatatagcaa anatatctca caaaacatat 240
atacgtatgt ttaggtagca agatacctgg gacacacatg tatatagcaa aatacctcac 300
aaaaatatac gtatgttttag gtagaaaaat acctcatgag aaaaaagaga gcgagcaaga 360
naagaataag aagaaaaaaa anatagagag agaaataata naaaaatata taanataata 420
gagg 424

<210> 29864
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29864

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cccctacttt tgaggggcaa ctcccgctt acgacgacta tcccgggcaa gacgatgagg 120
aaggagatac ccatcttggc cccctgctcc acctgaaaga tccgtcccca catgaactac 180

cccaacccaaa catagtccgc catgtcccgg cctcaccac acccgtaaaa gaatctgttc 240
ccttcgcgga agataaggga aagattgagg cacttgaaga gaggttaaga gcagtcgagg 300
gccttggcaa ttaccatttc tcggatttgg cggatntgtg tctcgtgccc aacatcgtca 360
tccctcccaa gttcaaagta ccagactntg ataagtacaa agggacgaca tg 412

<210> 29865
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29865

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gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tggtgcccac 120
ctccaactga gctcatgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttccccaaca tccaagtaac tcaacattca aacaacacaa 240
accatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaaac accaaccaaa 300
atcacagctt ttctcactta nagaccccag taacaattcc ttcgttccaa ttcggttaacc 360
gttggtatcga ctccaaaagt ttactggaag tctctagtac ataagcctac attntgaccg 420
ttgggat 427

<210> 29866
<211> 486
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29866

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actcagagac atgtgtcaac cttccacgtc aatcctgtta caggagcgtg gaaacctgac 120
ccctagtagt tggccttccc aacaaacagg ttattttctaa cctaactaat attcaaatgt 180
gtttgaatat tttatctatt ggcatatatt aaattatcta taatgccaca ttatctacaa 240
gggatgatta tcttctacct ttatctataa ttcanatgtt tatctctaac attatctata 300
aactcccagc tattatctat aagccgagaa ttatctacaa ggctacaata atccctaana 360

acatcctcgc tcaactaata taaatacagg ttccattgaa caactctaca cgacttgctc 420
acacactcaa cacacaacaa caagcctgtg ttccctctctc tcgctcatac gaagctcatt 480
acaaca 486

<210> 29867
<211> 372
<212> DNA
<213> Glycine max

<400> 29867

agctttgaaa ttttttaaat gctattaact cttcactcgg atgtccgatt caggagtatc 60
acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggccataa 120
cttttcactc ggatgtccga gtcagggtga tcacatatcg agacgctoga gattgaacga 180
cgggagctct caagaaattc aaatggcat aacttttcac tcggagggtca aatccacgcg 240
cctcacatat ccagacgctc gaaattgaac aacggaagct ctgcagagat tgacatgcta 300
ataacttttg actcggatgg tcaattgatg cgcacacat atcgagacgc tccatattga 360
acaaccgaag ct 372

<210> 29868
<211> 538
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29868

cgggcgagcg ttganncccc ttctatntan cngacactat agaatacttt agcttccttg 60
tggagcttct atggaagctg gatctttgag cttcgatgtt gtccttcaat ggtgattctt 120
taccatggag atgcagcgga aggccaaggg aaagaggata agggaagcgc cattcactat 180
ggaataagcc caggaagaat gagcttcacc acccagaatt ggcttgata aaaagcttga 240
agaggatgct tttatggagg aaaagaaaga aagaaggag gagcacgaaa tttgaagaat 300
aaaagaagga aagaagtgga acttttgagt ggatctcata anactttcat tcatcaaagt 360
tacaacaagt ggtacacatg cttctattta tagactanag agcttccttg agacgctttc 420
ttgagaaaac tctcttgaga agcttccttg agaaaacttc ctttgaagc tagagggtag 480
ctacacacac cctctcata acttagctca cctccttgag aagcttctta agagaatg 538

<210> 29869
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29869

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 atattaatca actTTTTTTaa agaatgaaat ttaattaaaa gagtcttata tttaagaatg 120
 aacactatTTt tacacttcan atgtatcacc tatttttctaa aaattatata taataaaaaa 180
 cttaaaaagc atgcatgcag ataatattct ttatgataag ttaatatogc atgattgtta 240
 gatggcatca cTTTTTTTcac taaactcaga tgcacttgTc tcgtagatat taccatatgt 300
 atcaatgagc aaacatgctt gatagagttg ttttgcggtat acctttcatg agtgggtgac 360
 antgctaacg aaaacaaatg ggtcttgTtc cgattgacat gtacttccaa ccaatcggac 420
 c 421

<210> 29870
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29870

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 gattaactta taaattgcta tggtagcatt aaacgaccaa gcatatacca caccatattt 120
 ttaaattcttg attccttaata caaggttgat ttttttgtaa tttgctgtgc tcaagacaaa 180
 atatctggta accatttgac tggcttatgg tgcatacttt gaagttagaa tttggaatga 240
 agaggaggag cataatccgg ttattccttt agataaatcc cgccatgaaa ttcggagagt 300
 gcatncattt gtagttctga tatgcacttg anagatngtg gatagcaagt aactac 357

<210> 29871
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29871

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aaaaaaaaatt gacttgccct aaatatgatg ttttatgagt tatttgtgaa acaatatagc 120
atagtatttt tgtatgttag aaaactattt tatacaaaat attattaaag gataatattt 180
tctcttaatg aagcttcttg aaattggtac tttgacatat ctttaagactt cagaaattga 240
ttgttttttt gcaaaaaaag acaatcaatt aagtatcatt attcaactct ctttctagt 300
acattttgat ccactttatt tgtgtgtgtg tgtgttgcan aatttaattgt gtattaaatt 360
aatttcatat tcaatttaat ttttcattaa ataaataaat taaagt 406

<210> 29872

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29872

tcaggtcaat ggccactggc tgaaaccatt cctccttagt ggatgtagtg gtggaggaga 60
cctccttact tcaccctact tcttttctgc catgacttgn ggagttttct ttcttctgtc 120
tccttcttta cttttattgc acttgtccaa attttattga ttgctttgat tgttcttgat 180
cttatgattg tgctacattg aggacaatgt gttgtttaag tgtgaggggg gagaagattg 240
ttctttaatt ctgttgggta ttctaagttt aatttattag gttctctagt ttaagttttt 300
taggttctac gttaactttg ttattttggt tntatgtttg tgtacaacat tgcattgtcc 360
tctttgaatn ttggttatgt agaggtaatg tgtaattggt tttgaat 407

<210> 29873

<211> 374

<212> DNA

<213> Glycine max

<400> 29873

atTTTTTtat taatggaact tatctttttg gcagtaacac attaaattca ataatcggtg 60
taacacatca tgtgtcattt atgcgaccct atggtttgct tgatattgct tctgtttcac 120
tagctaattc attgactctc ttcccatata ttgatgaaat atttgagaag ctggactata 180
taggcataaa ctactatggg caggtttgct ttattaacct tgagagtgca ctgtgcatga 240

tatctgacat actcacatga caattctcac atttatttta agaagtgggt tcaggtgcaa 300
gcttgaagtt ggtggaaaat agtgagtaca gtgagtctgg tcatggggta taccctgatg 360
acttatacca catg 374

<210> 29874
<211> 416
<212> DNA
<213> Glycine max

<400> 29874

ttgataccaa ctgaaactac tatatatgca ctaaaagggg ggaggggggtt gaatagtgtc 60
tatcaaagaa taaatatattt cacaataata gggatagtat ggataataca aagataaaaa 120
ctgattgtcc actgagaatg aaaagactat gtaatgaaga atagagtgat tgtctagtga 180
caaacaaaag ggtcttaaaa caatttttca aataagtact tgggtgtaaag tgatgttaga 240
aaatgtaata agaatactcg ataaaacaat atggagtga gtaaaaacac ttgggtttata 300
ctgggtttgct caacctaagc tacatccagt tctactttac tcaccagtaa aggggttcac 360
taatcaaaaa ctgattacaa caagtattct aacctgtcac ttcttgcttt acaatt 416

<210> 29875
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29875

agcttcacag ttgntttatg aactcccta ggtcatgaca tgatctcata tactaaactt 60
aattcgtgtg cttaaaaaac attttaatac atatgactga gaattgttaa aacttgcagc 120
taacattcta ttttactagt attataacgg agtctaattg atgtgacctc cttaggtcca 180
gtacgggtgtg taagttttta acggtcattg gatacagtgt taaaaaaatt aaccatagag 240
attttgaggg ataggggtgt cataaagtat tgaataacaa ttgtcagcgg caccgggttt 300
taaaaatttt ggggtctataa aaaatactaa ttaagaattt tttatatnta agtattttaa 360
attagacaca tgatataata tgatcaaaaa atatatacat tctatttcat 410

<210> 29876

<211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29876

acccacaaaa ccatgatgca ttgtttaacc ttggattggn ttcaaaaatg gaaggctcgt 60
 tacaacaagc ggcagattgc tttcaagctg catatgaact gaagctttca gctccagtgc 120
 aaaaatttga gtgaccgaga ccttgggagt actggtaagt ttttgtgggt gagttcaacc 180
 aagagcatta tacaaaaaac catgagcagc aactgatgga aaagaaaacg taccatgggt 240
 taatatttgg tgagaaacct atatagtagt tatacttagc tacttattta tagatttact 300
 tcattatgtt ccaatggaat gtccttcaca tttgacacgg aaggacagaa gtttggcttc 360
 ccaagtggta tagaattctt tataacataa t 391

<210> 29877
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29877

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 tgatcaacaa attaaaaaat atatattctt ataatttcat gatcatttgt ccaaggttat 120
 tactgaataa agtggattat tagatctagt aatattctga ttntacactt acgcatttca 180
 taattaactt tgcttatagg ttactggaag ggctttgcag gactcagtag aaatagtgac 240
 taagttttct gagatggaag agacatatcc ttctcttggg tctctttagt aatctatagg 300
 ttaagctttt tgaaatatat ttccatttag aactcgtatt ttctcttact ttcagcatct 360
 gtatactaaa ctatattctg cataatat 388

<210> 29878
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29878

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aaacaaagac agtctcattc tcatagtact tgggagtcac acggtcgggtt ctcttctctg 120
tcactttggc taccactaa gaaaaatcga tcctttcttc tcttcatac gcttctttct 180
cttctcttca ttcatttcaa tttgtggtgt tagtgaaata ataatgaagg ggtagttgaa 240
cattcaaaca acccatgccc tcatttttat gtgtgggtat ggtctcatta tcttcaacaa 300
atacatagta caattactac aatgctgtat ctgcttctgc gtggntctta ctcaatttct 360
tctctttctt cccttcttcc tcgatctcaa tcttcccaac t 401

<210> 29879
<211> 414
<212> DNA
<213> Glycine max

<400> 29879

agcttcatcc tcagattcct aatttaagac taggcttaat ttaaacaaca ttatcatcac 60
aacatattta gaaaaccaga accccacaat tcatccctgg taatgtagtt atttagccct 120
gcttctatca agttctacag caacagtga tttcccaatg ctaaagtcac ctaacaatac 180
acacaaatgg gtgatcagac caagagcatg caagaattaa gcattgaaca cacaaaacac 240
aattaattag atattaaagc taattacatc aattgttctt tagaaatccc caactagggg 300
gtttagccag ccatacaaag aaaccctaac acaaatgaga tagagagtac aaaataattg 360
gtgcttacac aagaaaggtg atccctcttc ctcttttaag caccttacia tcac 414

<210> 29880
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29880

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ggataaattt taaagtttgt tcaaccgaaa tttaaaataa aaacagaggg ttgagggggc 120
ccaaattgaa agcaaaaata aaaaaggatc acaattcacg aagtagtta aacttgaaga 180
gaataccata aaattaatta tgcaagttgt ccactagccc atcttgtcca atcaaataaa 240
cctaaacttt cctcatggga ggtgccatgt gagggctcta tctctccata ntttattaat 300

atcatattca aaccacattc tttgttagta atctttcatt tcnngttatt agtcaaactt 360
aacttccttt tctttcatta cccctcagat taatacgcca cttatttcat tctcanatat 420
ccgcttcaaa ataatagtat atta 444

<210> 29881
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29881

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cgctcatgtt aaacaaggaa agctggatgc aagggttgca aagtgtgtgt tcattggcta 120
tcctaaagaa gttaaagggt acaagctatg gaaattgaaa cctggtgaga caagatgcat 180
cattagtagg gatgtaacct ttgatgagag cagaatggca atgctaagca aggagctgaa 240
ggataacagc tcaagtagtg agagtaccaa atttgacgtg gagcattcta agatttcaga 300
tcatggcagt ggagatgcta ttgatcacac tgattaagca gaaactggag ataatgaaga 360
gctggctact cagcatgac 379

<210> 29882
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29882

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ctcgtgtccg ggctactaga gtcggtgtca tgaccaaaca atactttgga ctggcttcaa 120
aaagctctca cacatctact tccatggctt ttgaagacct ggagcagctg acaaaaaatc 180
agggactagt tggaggagtc aatcactaaa aaatgactcg acaactaatg cttttcattca 240
accaaatagca atcctagatg caatcataga tacaattata gggactcgta ccacctcctg 300
agcctgaggt tagtccttct gctgcctgtg tcgatccctc gaggaaggac ccaaacactg 360
gtgcatcaga taggcgcggg ttgtatgtca atgagaattc tcctt 405

<210> 29883

<211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29883

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tctttggagc atcgctaaac acattagaca atcaatgaga gactntagtg tgaaaattta 120
tcctaatect atccctatgc tcaggtttcc acatcaccaa cctctatatg aagagaaaaa 180
aatgttggtg taggagacac tgaatatatt tcaatgttgg tataggaaac actgaaaatt 240
ntatggcaac ttgagccatg aaattgcaa aagaagcatg tgggtataaga aatatagaag 300
cctcacatct aanagtgcaa attanataaa attntaattg aaaaactaaa tctatgtttt 360
tggtacataa cacttaattc acatg 385
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<210> 29884
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29884

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tgagcgggtg acctatgcat tatgtgggtg cttcattatt ttgaattgct ttctgcatgc 180
caataggggt atacatttca ttgtatctga gaccaatggt ttattctgat aactaaggat 240
tttaaaacaa atgtgtccaa cttcttcact tcgattaatg gcaagtgaat attggaactt 300
tcccaatttt atttataagg gtttgtatag aaagaatcct ttcacttgct ggagatntga 360
caaactgctt gtaactggaa tcagcatcgt atcttgtaat gccataacct ctgtgaatgg 420
tatnggatta tataccgtat ttaat 445
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<210> 29885
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29885

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attgtcgtat aaagattatg tcacaatgga aatatttttc tcctttttcca aggcatgaat 120
gattttcaca atttagttgg aaacatctaa attttttgaa ttgaagataa ttcgttntaa 180
aattttccta actcaatatt gtttgtaagg aattttatat agttgattat cttgatggac 240
ttatggacac tgacagtggg atacgaaaca ttgtttcaat gtttgaaatt gctaatatcc 300
tatccattnt ttaagtacat catcaatctg aattctcaat taatgtgatg ctnggtattc 360
aactnttatt tatcataatt nttttcatgc taagt 395

<210> 29886
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29886

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tccttggtt gtattgtatg attcagggtgc gactcattca tttattttctc gtgtctgtgt 120
tgaaaaactt gccttgccctg tgtcttcctt gaaattttac ttgattgtga atacacctgc 180
tagtgggtct gttntaactt ctgatgtgtg ttgcaatgt catgtcttaa tttctgatag 240
acaatttctt attgacttag ttgttctacc tttgagtcag attgatgtta ttcttggtat 300
ggactgggta tcttccaatc atgtcttatt aaattgtnt gagaaatctg ttggctttct 360
tgagtctggt gtgagtgaaa gtgatatgt 389

<210> 29887
<211> 210
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29887

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cagaataaaa atttctaagt tatttttcag tcctttttcc aagaaaatga aacccttatg 120
ttaaacattc aaagattggc tgatatactc ctatgtacag atcatacagc aagttccaaa 180
tgattaaatg catgaaatac aaagataaca 210

<210> 29888
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29888

tctggtgact gggaagcacg ttattctgtt gttttccaga tcggttcctt cgccatgtat 60
 gtgcatactt gtattatatt tgttgttctg gttgttggtt gtattttgtt ttgtgcagaa 120
 gataaaaaaa agaagaagta gagatgagag tcgtcattgc gaaaagggtta ggacggacga 180
 aatctgtgtc ctatctttgc tttcctctta tctccgatga gaggtaagta aagaggggca 240
 actgtcatat cctaatttcg tccggggatt attacttgat gacatgcaat aaatgaagtc 300
 ccgagacgtc tcagaaatca aaaggaagca ggcttgctgt tttcgtgaaa ttcggtaatg 360
 tggcggaagt cgaacatatg tgtttctgca caatccgtaa gtttccgtga cttcttcgta 420
 aggtaaaaaa ggagtaaata cataatccgt atgtat 456

<210> 29889
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29889

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 acctgcagca tgcaagctnn gaaaattttt gnnnnncttc ntctcgctaa gcccatctac 120
 tggcttaacg aaccttcgcg ttaaccatt ctgcttgctt aacgagcctt ccggttaagcg 180
 caacactcat gggcctaaac gcgagggaag actcttgga gaagatgatc tgtacagggt 240
 cgctaagcgc accacttcat ctactaagc gcaccgcttc agttcatccg ctaagcgaga 300
 aaggcacgcg ctaagcccga atcactaatc tgcgctaagt agtcataag tgccgctagc 360
 gcacgagcac ngaacaggtc acctatttaa gccctanac agattcagag aaggagtggg 420
 ctgggatcan nagcttgcat tctatggttc tagaagagaa aggtccagtc taagagtttg 480
 agagattgct ggtgan 496

<210> 29890

<211> 454
 <212> DNA
 <213> Glycine max

<400> 29890

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tatgttgatg ctatttctga cttaaaaata ttagaggtg agtcttccag ttttgcaagt 60
taaggaattt ttttagaatt atttaattcg agtaataatt tttttgtag aatgaagtat 120
caatgtctag ttttaagttta atagtgctag caaatagatt tatttatttt tatcattcac 180
aaaatattta attgaagtaa taattgtttt tttagataaa aaattaatat gtgaagttta 240
agcgtattaa tttttgtaat taggtttttt actttgaagt ttttttaatt atgtttaatt 300
atttacaagc cttacaaata tttacctgat tcccttctag ttttttgaag ttagaatgaa 360
atttgaatct atattttaag ttaaagttag tagatgaagc aaccaaatac agttatttat 420
ttaaaaaacta ctcttgttat gattaattat tttt 454
```

<210> 29891
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29891

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tgcacccggg atccttaagt caccgoggct gcagcttagc attgatngnn ccatgcttct 60
catttgatgc tccccttatt tctaacaatc tnccttttt ggctttgatg atgccaacct 120
ttaactatga cattgagtgc attggagagt attgagatgg attggaaaca tgatcttatt 180
aacacttaat aaaggattaa ttcattcatga ttgatgcaac cctaccccc aagggcattg 240
gatagaagac tccaagaaga ttgngccaga caggcaagag aaggccctag gggttcttatg 300
agcttttagg tagaatttgg gcccatgggc taagtatgag cccacttatt tttgtacata 360
ttagattang atttcattat ttttgggcct tgtatttang gttctataat 410
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<210> 29892
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29892

ctttgatgat tcattacttg tcttttcgag gagcacacaa tttctggata acttgtcttc 60
atgatttgtc tttatcttca tagttctatt atttcaatct tgtcactgat ctattgtggg 120
taaactcgtc gggtcgcccac agtgggtttcc atcacatac tcattgcgca ttaactcgtt 180
gcccttaaag ggtcttagca ttaacttggt acccttaaag ggtcttatag tcgtgtgatt 240
gtacaattca tagctcataa ctcaatgcac acaacatctt aatgcacaca tgtatattgc 300
aagtcaatac atactcaatt tatcacatat attcgggtctc aatcacaaatg gaattgtata 360
ttctcaaagt agcatgttat cacacctcat gaatcataca cactntacct atgaactatg 420
aaatacacac aactactcaa ttgtttcaaa gtcatttacc tcg 463

<210> 29893
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29893

agctntgggg ctgaanaach attttacagc accaaggggc nagnttaggc tctcttctct 60
cttgtctcta ttctctctcc tctctctctc ctctctttgt cgttatagtt ttagagtgtc 120
actctctttt ccgttttagt cacttttcgt tgtagcaata aaatttcgtt cttcaatcta 180
taatttcgtt ctctattgat taatggaagg ctaagtctcc aacgttggtt tctcttgagg 240
atcaagcaca attctctctg aggttctatt attactatta aattctgatc cagttttcct 300
cttcactaat tactctgtat ttgttgctat taattcatgc atgcttagtg cttgattaat 360
tgtctctgtg cttcaattac gttcatgctt aatgatcatt tatgattaat tg 412

<210> 29894
<211> 456
<212> DNA
<213> Glycine max

<400> 29894

tatcggcctg acaaaccacaa acagcgatct aaagcctcag attgataagt aactgttact 60
actaaagaca taaatcttaa tggtactact aaagccatag atcattgatg tcatttcttt 120
ctatgatcaa taatagttca ctcacataaa aaatttcaga gggcaatcca accagacaag 180
gagccatgca aaacaaggta aaagtgtcgt gcatttcagt tgtgaaaaga acagaagcag 240

cataacatag aaagaaggcc agcaacacca caacaggacc tcacaatcag actagacaga 300
 caatgggatc tctttgatct agagatgcc aagaagaca ggttccagca atacaagtgt 360
 tatcaatggc atatcacgca aaatgacaaa ccaataaccc agtatatcat ataacagata 420
 gtgttgcaag catatagcag aagtcttatt cacata 456

<210> 29895
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29895

agctngaaac ttgatgggaa ttttcaaag tnnaatgag aaattgctga actagaggaa 60
 caactcaagg ttttgaagtg tgtgaacttg gaggaagctg atcatgagaa taaaagaaag 120
 atagaaatag aagagataga agaaaaattg gaggacatga tttttgatat gtccgtaaaa 180
 gatgatgaaa atcaagcttt gaagaagaag gtacaagaag ctaaaatcga gctagaagat 240
 gctaggcaac aaattattaa ggtaaatggt ctgttctgag aaaatcctta ttctaatacct 300
 tataactaagg agacactnta gttcataatt ntattaaacc ttttactnta atttttcaac 360
 ttcacaaaaa gtaattcatt ttttactttt actttgtatc ataaagggtta ttttaagtga 420
 taatat 426

<210> 29896
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29896

ctaagcttcg agagaaanac ctaccgtgag agcaagaatg agagtgcac ctataccaac 60
 agtgagagtg tgaccgatag tgatagtgt gatactgggt tcagtgccgc gagagtgata 120
 ccgatagcga gagtgcact aaaacctaga cgatcatgag cgagactgac gacaatgggt 180
 tcagcgtcac aagagtgaga gtgagagtga aagtgacaaa gggtttgagg ttgccagaag 240
 cgtgagggag atgagtgaat tgccaaaagc acgaataata ttataaatag gacaatacaa 300
 tgtcagtttt tcttttaaaa aatgatatta gcatgagttg gttaatatgt gtttttgtaa 360

aaatcgatgt taaagaagtc acgagaacat cgatctttga acaactgatg ttaacaaact 420
aacgttatc 429

<210> 29897
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29897

aaaaactgtg agctctgtga accgtttgaa tacaggcacc cgggaccta ccagtgcct 60
gcagcatgcn ctgaggcatg ttagecgnccc actcgctcgc ccaggcgagc tcagctgtcc 120
cagccgagca aggttgtttc ctccagaagc aacagccttc tggacgaatg atccggaacg 180
cccaggcggc cacattgcta tatgtacccc cttattacta aatgcacccc tcctagtttt 240
ttgggtaatt cttttccgta acgttacgaa actctacgaa tatcgagcga tgcttatctc 300
cttcgcgaag ttacgaatcc ttacggatta tgtatttact ctntattagt attcgaagac 360
gttacggana ctcacgaatt gcgcaaaaca cctcttttcg atttctgcac attacggaat 420
tcacggatcg cgcaagcctg catactttat gattctgaga cgtctcgtga ctacatttat 480
tgtgcaacaa t 491

<210> 29898
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29898

caacatgcga acatctcaag ctatcacagc caagcaaac agagcaaatg cagaaaactc 60
tgctcaacac atcaaccaa atcacagggtt ttctcactta aagaccacag taaaaattcc 120
ttcgatccaa ttcgttaacc gttggatcga ctccaaaatt ttactggaag tctatagtgc 180
ataagcctac attttgaccg ttgggatcta ctagcagaca ttgagaactc attctgcact 240
agactttcca cagccaacca cacacaagca ttnttctgca cttgtgcaaa attctgctgc 300
acaatttcac agcatatatt ctgcataagt gcagatttcg aatatcacac ttgctctcat 360
ccaatcttgc ccaaataat tcctacaagt cccatatcat gtatcaatca tgtctaaacc 420

aaattcaag

429

<210> 29899
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29899

ntgcatgtct agggtttcta gagagagaaa ggtgggagtt ctagagagtt ttgagagatt 60
ttgttgtgtg aagatctgca gagaccagag cttgaaacaa gagccggttt gagagcttga 120
gatgagtttg tgagtgattg cgagatccta gaggtgaagg agacatcttc accacttgta 180
tatgtgcaat ctttcatctt gttcttctct ttgttcttaa gaaggctttc tggatatgaa 240
agctaaatcc tttgtggatc ttccctggag gtacctgatg taaatatatt tctatctatc 300
taatgatgta ttgtgtgttc tctgtgctat ctgcttttca ttccagtatg cctttacctt 360
gatcacgtag atgcatgctn tgttagggtc attcaatact ggaaactggt ctgacgctaa 420
agtccttgat agtgcacggc tg 442

<210> 29900
<211> 402
<212> DNA
<213> Glycine max

<400> 29900

ttctgtgtct tctctaaata acgatctact cttgtagacc ccttctattg gatctgtgtt 60
aacttctgat gtgtgtttga attgtcctgt ggagatttct gggagaatat tcttaataga 120
tctgatcggc ctttcttaga gtcacattga cgttattctt ggtatggact ggttatcttg 180
caaccatgtc ttgttgaacc gtttagatat aagagtggtg tttgacgatt ctggagttag 240
taaagatatg atgtttatct ctaccaatct gtgacatcgt ttaccgaaga tgcttaagta 300
tacatgatct tgtctagcct ggaaaagata caaagggttc tatgttgacc ctctgatgt 360
caacactatc tgaagtgttc ttgaggaata ttactctcc ac 402

<210> 29901
<211> 363
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29901

cnggcacann aggaggngaa tgtcaaaggn caaaggcacc gcgaaccgac naccaaaaca 60
ttggaagacg aaacagcaca gagaaaagaa ggggaacgaa ggaaacacaa ntcgaaaaca 120
gccacaaaac aacggtgcta ctggaaataa tatcccactc tattgtccaa cggaacgccc 180
agagggcatc gttgcttaaa attgacgatc aagcacaata atagttgacg ttcgatcagt 240
aatattatat tctgagaact tgtgatgtta acaattactc tggtatgatg tagtcacaat 300
gaagcaaagg ccgataacca catgacttaa ttacgacccg ctatgatagc aagataccga 360
gtc 363

<210> 29902

<211> 444

<212> DNA

<213> Glycine max

<400> 29902

tcggcagcta aagtattact caaaagataa agatccaaaa tcaaatcaat cttataaata 60
aaataaagaa tcaaaattaa aaataaaata aaaaatcaaa agtataatct atcctaaatt 120
atattgtaga tttcgaataa atatttttaa ttttaataa ataacgataa aagaaggtaa 180
actaaaaaat aatttaagat gattagaaga tcaatttttt tactaattgt gagggtagtc 240
taataccttg attttcaata tttcacgttt aacttccttg atcacggtta taattgaaat 300
tgtcatttaa aacataaaga ttaattaaat gaactttatg tcaatctcta agcaagtttc 360
aataatttat tagattgaaa cttagaccgt actgtgaatc aataaatgct ttcacaatat 420
gtgctgtgag ccgacaatca aata 444

<210> 29903

<211> 427

<212> DNA

<213> Glycine max

<400> 29903

tgaacgtaaa ctgctcgaga aaatacccaa cttttaagtg aaatgatgga agaaagagaa 60
agatattggg aaaaaatgga aaaagagagg agaagattga gaaagagaat gagaaagatg 120

aaagagtggg acgacctcga tggaacgtga ttggcgaaga agagaagtgg tggctctggc 180
 ggtgcagcga gcaagaggtg aaacagtgcc gttcgggggtg ggattagtat agaaatgagg 240
 aagtgtgtat agagggggtc tagaacggtc gaggacatgg atacggtcct aagagcaata 300
 acaccactct caaatgcgga agcataatat acaggggtta tgaaaatatc ataaacaccc 360
 ctgtttatac cgaatgtcaa ttttatatgt tgtccaattt ataactgaac cgcctattat 420
 tgcttat 427

<210> 29904
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 29904

gatggtgcaa catatttctt tggcctaata ggaactccaa tatttttaca gcttctaattg 60
 ttatgattgg tttggccaca ccttccacat gtaaactcag ccaatttcct ctttagctta 120
 tgtcctgtga cattgtcctc atctacagat ctcttctat gattctttgg ccttactcta 180
 tggacctttt tatgtggtgg aacaggggtg gtatactgtg tc 222

<210> 29905
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29905

tgttctanat atacattgat gtttgtatgg gaggatgtta catgccatta ttgctttaag 60
 agtaatgtcc cactaaaact aactttccaa atgtttgcct tcgcaggaat ggcaccgagg 120
 aagcttgctt catagaggtc caggaaagac aaggcgccg aaggaactag ttccgccccg 180
 gagtacgaca gtcaccgctt taggagcggt gtacaccagc agcgtttcga agccatcaag 240
 ggatggtcgt ttctccgaga gcgacgcgtc cagctcangg aggacgagta tactgatttc 300
 caggaggaaa tagggcgccg gcggtgggca ccaactggta ctcccatggc caagtttgat 360
 ccagacatag tccttgagtt ntacgccaat gcttggccaa cagaggaagg cgtgcgtgac 420
 atgagatcct cggttagggg t 441

<210> 29906
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29906

agcttatcga tactgaancn canncnnnna acacattgtc tttttcgtac taaaccaaaa 60
 cccaattcgc taacttttta ccaaaatatt aatttattaa ttaggagggg catacaagga 120
 aatatatfff caaaacctat ttaggaataa atgtaaataa aatacaaaat caaatctatt 180
 gtccgaaggg agcgccgttg ggttttctat cctanacct accatfffcc fttttcataa 240
 ttctcactct ccgcaatatt attttccttc aaagtcattg gtaagttaaa gacatfffcc 300
 ttttataatt ftttgcccat aaaaaanaaa taattccatt tatcgaanag tgaatattca 360
 atgtaaacca caaccttaat tgaacattat attcaagatc t 401

<210> 29907
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29907

nggttaacaa tatcctttat ataataaaa tgttaattaa tatcttanaa atactagtta 60
 atgaacttaa agttgaaata cggaagataa acaattacaa tgttcatatt ttttatgatt 120
 tatgcattta atattcttat tcttttaatt ccttaactaa tatctagaag cgctaattaa 180
 caagaaccat ataagtaaac caatgagtaa ctaacaatcc cgttataaaa aaaaaggtta 240
 tcatcatgtc ttttttgac taatcatatc atcctatgat ttcattcgac aaataataaa 300
 gttaaaaatg aattgaaatt aaaatacata ggaccgaaaa ggagttatga gttaatatat 360
 ttaattaaga cacatatctg ttaacaaaat tgatacagca tgaatgaata atgcgtctca 420
 gcgaacaaaa tcttgatggt t 441

<210> 29908
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29908

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agctntgagc ctaaactctg actctccata ttccttngac ccaggtgaga atgccaatcc 60
ttaccctcgg aagcaaaaag aatggaggga anattccaat caaagaanaa gagaaggaaa 120
atttccaatg aaagcaaaaa agaaatgaag gaaaattccc caatcaaaga gtgggagaaa 180
gcaaaaaaaaa ggaaaagaag gaaaattccc caatcaaaga gtgggagaaa gcanaaagaa 240
nagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaaggagaaa gaagaagaaa 300
gaaagctctg a 311
```

<210> 29909
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29909

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tctagccaaa gaaagaggga gagaaagaga gaggggggag cacgagattg aaggaagaaa 60
aaggagagaga agttgaactt tgagtttgtt ctcacaagac tctcattcat caaagttaca 120
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240
acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta 300
gctacacaca cccatctaaa aactaagctc acctccttga caaaatacat gaaaaaacia 360
aaaaaaagtc cctactacaa agactactca aaatgccctg aaatacaagg ctaaaatact 420
atactactag aatggtcaaa atacaaggcc caaaag 456
```

<210> 29910
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29910

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agctnanatt atcacancan cgttttgaat aatganaagn nactgtgtga gttgatttct 60
tttgcggtat ccaatataat aaaaatatgt gattatatta caaatcaat tcgaatccaa 120
aaattggtgt taatattttt atttgaacct gtgcgttgca tgggttggtg gactagtatt 180
```


tgtaacgact gggatcatat atagtttata gttaagtagg cacacagtga anatctttat 240
aacgaagccg ctgtaaactg tacaagcgga gagccgtatc aattcgcttt tcatatgtaa 300
tgtgtnaagc aggcattgca atattactga tttctttgca gctagagttt aatttatatt 360
atgttatcct atgcattaat aatatgatac gatgaaaaaa ttttttctta ttaatat 417

<210> 29911
<211> 456
<212> DNA
<213> Glycine max

<400> 29911

gctaataatt attgctcatt ctttacagat attgaaaata acatctctaa gattcttgag 60
cttattaaga acaaaagcca tagcaaagaa gatgatgaga accacaaaca ttctacaagt 120
gggacagaac ttgttgggtt aatagaggat ttatacaaga agcaacaatc actttatgcc 180
atatatgatt gtgtcattga agagtttgag aaagtagttt ctcgcaaaag aatcaagaag 240
gttgcaatgt cttcctctga ctcggactct gaatactttt ccccagagga agtagatggc 300
attaagagaa agtcagataa agaattattac agtgtatctt atcttggcac ccttaagcaa 360
gaatctgata gaggtgattg tacagatgag gttcctaaga ttgaagcaac aaagtttgag 420
gaacaattaa cttcactagc gaaagagggt gagagt 456

<210> 29912
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29912

agcttgtagc attatgcana ccattantaa ctttttagctc gganatccga nggagnnccc 60
gaatatatca agaccctcaa aatgaataca aaagctctta acaaataaaa cgaacataaa 120
ctttctacac ggatgtccga ttgggcaacg taacatatcg actcgctcga aactgaatac 180
caaagctgag agcaaattca aacaacaatg actttttacct cggatatccc attgagtccc 240
ataatatatc gagacgttcg aaattgaata gagaagctgt gagacaattc taacgacaat 300
aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgttc gaaatttata 360
acggaagctc gtagcaaatt caaacgacaa taacttttgaa cttgga 406

<210> 29913
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29913

tgagatgagg aagtgttgaa gggtgaaact tcccgcctttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgtgg gggtcaggag accttgnnga cgtcatgtgg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgaggca tagtcgggtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaataga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tgtgggttat 300
 ggctctggc aatcgattac caagggtggg taatcgatta aaaggctaaa aaatgaagac 360
 aggaggctaa gatgggtctct ggtaatcgat taccacggtg tgtaatcaat taccatgctt 420
 gataacgatg tcaggaagcc atgatggctt ctggtaat 458

<210> 29914
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29914

agctnngccn ctcagnngnn agttggtatg ttgacnccn naantngggg angaagagtg 60
 ggcacactan aagaatctaa aacttcaaaa cctggagagt cgatcatcat aaccacatcg 120
 agtagttgaa actcactcga aaagaaagtg agatttaaaa ataaatgaat tcaaattacg 180
 gtgatgatct gttcatataa taaagaaaat attttaaga gaaactaaag ataattttat 240
 tagtcaaaat agattaatat gatcaagaca gtaactaata actcanatgc gcataatntgg 300
 cctttgcatt cttaagaaaa atctatatat atgttaatcc attagagtga tagatagagt 360
 aaatgcaaga taaatttaat atgcgtcaat aaagtctaaa ttaacaattt tatcgattct 420
 tgatatatg 429

<210> 29915
 <211> 464

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29915

tactcaagct ttgacctaca tggttccttat ttcggattca tgtggttacta ggctatgaca 60
aaaaatattg aagatcaaga gtgatttatc ctaattaaat tatttccatt tctaattatt 120
tttttagaag ggcacagggg aatccgagat agctcttaat acaacagtgc aaagctgcta 180
cctatatgat atatatgtag ttaaaatctg accctgcca tgtacgttaa gtaataagtg 240
ggtcgagcct aaatctgtgc ctgaagaggc atatgatttc aagagttgga cctatagtga 300
atttttaaaa aattcccaca ctagttatct gacactttca tttatgatga ggagaatatg 360
aagtaatttc tatgaagggtg cttcacttca tgagtntaag aagtgcacat tatcaatgag 420
tagttgaatt cgatgatatt ggatataatt ttcttaaata aata 464

<210> 29916
<211> 53
<212> DNA
<213> Glycine max

<400> 29916

taatgcatgt catacctact aggcactata cgttgctaatt ccattatgac cac 53

<210> 29917
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29917

aaaaaaccag ttaaccccggt cgaagccact gacatcaggg cgactcagct cggacccgng 60
atccttagag tcgacctgag gcatgttagc naacncttca taattcgcaa cacaagaacc 120
tggaagctg aaaatggccc tctcttaaaa cataaaccac gggtagaagg tcccataaga 180
atatctaaaa tgcctttaat aaaagaataa tgaacctccc ttggttcttt ttggaacctt 240
gcacataagc caacaccgaa tattaaatca ngggttgatg ttgaaaggat agcagtgatc 300
caatcattgc tttgtattgg gtcccgctct cctttttaga ttctttgtcc aatccaagggt 360
atngtggtgg atgcatangt gtcttcatct ctttttcatt ggccatgtng aaacttctta 420

gaagtttttc acatacttgg gttggtgaaa tgtaatncat tgctngttgc tatntttgca 480
atccaggaaa acattan 497

<210> 29918
<211> 449
<212> DNA
<213> Glycine max

<400> 29918

ctaagcttct ataggaatct tcttaaggaa gcttctcaat gaggtgagct tatttatgag 60
aggggtgtgt gtagctaagc tctagcttct caaggaagtt ttctcaaaga agcttctcaa 120
ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataatgt gtaacacttg 180
ttgtaactct gatgaatgaa agtcttatga gacacacttc aaagtcttac ttctccccct 240
cttttattct ttcaatttcg tgctccccc tctctctttc tctacctctt tcttttcttc 300
cattgaagca tccttccaag cttcttatcc aaggctcatc ttggtggtga agctccttct 360
tccatggctt attccctagt ggatggcgcc tgccttctcc tcttctcctt tgccttccgc 420
tgcactaca tggtgaaaaa tcaccattg 449

<210> 29919
<211> 213
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29919

gctcactaca agccttaagt gaaaaacat gatattacca tacccttaag gattnnttgg 60
agcttggatt tgttttggga ataagtgtgg ggggtttttg ttctattgga caacttgttt 120
tgttggctat gcttcatgat gtattttggg ccatacttga tgtacattgt atattgggta 180
aatgttgac atgctgaatg aaatgttggt tct 213

<210> 29920
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29920

tctgcatggt tagagagttc tagagagaga aaggtccaag ttccagagag tttgggagat 60
 tntgttgtgt gaagatctgc agagaccaga gccatcctga gagattgaga tgcgtttgtg 120
 agtgattgtg aggtcctaga ggtggaggag acatccccac tacttgtatt tctgcaatct 180
 ttcattcttta tcttctgttt attgttaaagg aagtttccct gttatggaaa gctaaatcct 240
 ctgttggtatc ttccttgtag gtacttgatg taaatatctt tttatatgtt taatgatgtt 300
 ntgtgtgttc attgtgctat cagaactgca ttctacgatg cttttagctt gatcacgtag 360
 atgcatgtgt tntaaggatc attcaacagt gggaactggt ctgattctta gaacttgata 420
 ggacagggct agtttgttgt at 442

<210> 29921
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 29921
 actcttctga ctcatgatgt agatccatgt ctttcttgag tattcatcaa ttatggacaa 60
 aaaatacctt ccaccaccta tagaagatac tcttgcaggc ccccgatagt caagatgaat 120
 gtaatcaaga gtctctttga ggggtgtgaat tgctttatga tattaaatcc tatgttgcta 180
 gccatataca cagtgtctgac ataatttcag ttcattcaat ctttgatttc ccaacagttg 240
 ctgtttttga agtatcatca taccttcttc agtcatatgt cctagcctca tgtaccacaa 300
 ttgagtttag tcaggtatgc ccttattgga tcttgatgga acagttacta taccatcatc 360
 aatacatgtt gtaccttgaa gtatatagag attaccctc tttataccct tcatcacc 418

<210> 29922
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29922

ttagcttcaa gactaatggc cttagcaaac ttcttattcc caaaaggaaa ttcaatanat 60
 aggctccta tttttaatgg agagggttac cactactgga aaaccggaat gcaaattttc 120
 attaaggcaa tagacttaaa catttgggaa tccatagaag ttagacctta tgtaccaccc 180

atggtggcta gaaatgcaac aatagagaaa cctagagaat agtcgactga agatgaaaga 240
agattagtgc agtacaattt aaaggctaaa aacatcatta cttctgccct aagaatggat 300
gaatattnta nggtttcaaa ttgtangagt gctaaggata tgtgggacac tctacaagtt 360
acacatgaag gaacaactga tgtaaacga tctangatan atactttaac tcatgagtat 420

<210> 29923
<211> 440
<212> DNA
<213> Glycine max

<400> 29923

tctgggacgc ttactctgga tacaactaga tcatgatgct cgctccagat gaggagaaaa 60
cgacattcgt cactaaaagt accaattttt gttacaaggt catgcccttc ggccttaaaa 120
atgtaggcgc tacataccaa cgattgatgg accaagtctt taaacaatag attggacgaa 180
acatcaaggt atatttggat gacatggttg tcaagtctca aagcatagtc caacaagtgg 240
tagacctgga agaagtcttt ggggaactcc gtaaatatga catgtacctc aaccctaaaa 300
aatgtacttt taagggtgggc ggaggcaagt ttctcggctt catgatcact caccagggga 360
ttgaagccaa cctcgacaaa tgcactacca tactagagat gtgtttcccg accaacgtcc 420
aagaagtcca taaactgaac 440

<210> 29924
<211> 391
<212> DNA
<213> Glycine max

<400> 29924

attgaattat ttaacatgcc caaaataagt tctctaattc ttatgaatct ttataattgc 60
atattacata atggagaccg gataaactat atatgaattt gcaatttatt atgtctattt 120
cttcttacta atatagcaat atacctaaat ttcttcttga aaaaattagt gcatgacaca 180
ttaatctcca atactacaga aatattattg tatttagttc ttaatatcat aaattgcagt 240
catataaaac atggtacact ttacgtttca aaatgactaa tataaccaat atttgattgt 300
ttttaagat taacgtgaga gtttatatgt ttaaggatta acgttttata acaatagata 360
tggctgctcg gcggttactc tatgtcttaa c 391

<210> 29925
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29925

agcttttcgaa taatagagga actatcttca gttcgtagggt tgccttcac atcagcgggt 60
 taagcaccct ttntgacca agagccatca tgctctttgc ggtaatcaaa agaagcaatc 120
 acagcagcac caattaaaaa agatctcttg attggaacat aagggttcaga atcaagagga 180
 atttgaaaat ggcaaaaaaa agagtgcaca ggtgtggata tggcaatgga gcatttaatc 240
 gcaatgcctt atgcatgcga tatctgacaa ggtgtgccca gtcaagttga cgcccggat 300
 gaaaggccca catgataaca agatcttcct cagaaacctg ggcaagaatg gaagatcgtg 360
 gaagcaaaat ccgcacaatc agataat 387

<210> 29926
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 29926

tagccaaatc atactttaca agttgcatcc ctattagttg cgaatcaaaa ttattgatcc 60
 aagtaatgat ctttgagttg tttacttctt aggtttccaa ctcatattata gatttcccat 120
 tgtgttcatt tggaggctta gtaagagttc catcaacata gccctacttt ctattgcctt 180
 tcaaaaaaaaa atttcattac atctccaata agaataacag agcaaaatag attaccggaa 240
 ccatcgtgtc gaaacagaaa caagtcgcga acaaaacaga gaaggttgcg atataataga 300
 tcttcgtgac ggagttgggg tcacgaatgc agagagagag gcagaactgg gtcaaaaaac 360
 aaatttgata ccatgttaac attgagaacg ttacagttat tccgaattag gaaccaagct 420
 ctttgatagc atgttaacat tg 442

<210> 29927
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29927

ttcaatctca gcttgttaggt ttgtttatat tatgttgtgg taacaaagtt tctggcacac 60
gactgggtag ctgctgtcag ggagcttcag agcttatttc taacctagat gtcttttcat 120
ttgggtctttt ttttgtttat ttatttttct atttaaattt ttttgtttca ttatatacta 180
ttgggtgggtca agattttctca gaacaattgc ttaactaaaa attttgggtgc actcttgaac 240
tctagccaat atacagaacc ttttaatagg ttaaagttac cagtttagtgt gggattcaag 300
tttatgattg ctntaagcac tagtattctt ttaggtctct ctttaagttgg agaacgtaga 360
tagagagaaa ttgcttaaca gaattacaat taagagaaaag gaaatntgaa gtgggaatga 420
gagaatctgg gttatctcta tatatgtaat aatctgtcca tgcanggat 469

<210> 29928

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29928

atcttccaca gnnagctcca atactttacc tgccatgtng cagatccttc ataaaagcca 60
ggtcacatc atgcagaacc tatagaactc angccctgca cctatcatga gcatggaaaa 120
gttcattagc caagtggaat gaccaggagt ccaaccttct cctttgggaa ggggtgagggc 180
ctnccagcc caagagcctg tgccccganga tgaagacgag tctcntcccc ctgagccttt 240
catttatgag ccagacacaa agattgctca ngaggaggca ccatcaccag agcttatttc 300
tcagtcatca ccatcaccag ctttagtctt tgaaaccag agccatctgc accagcacgg 360
atacctgatc agcctcttgc tcangaccct ctagctgcac taatg 405

<210> 29929

<211> 424

<212> DNA

<213> Glycine max

<400> 29929

tgaatttgggt ttacacatga ttgatacatg atttgggact tgtgtgactt gatctgggca 60
agattggatg agaggaagtg tgattttcga aatctgcact tatgcagaat ttttgctttg 120
aaattgtgca gctgaatttt gcacaagtgc agaaaaatgc ttgtgtgtgg ttgactgtgg 180

aaagtctagt gcataatgag ttctggatgt tcgctagtag atcccaacgg tccaaatgta 240
ggcttatgca ctatagactt ccagtaaaat tgtggagtcg atccaacggg taacgaattg 300
gatcgaatga attgttactg tggctctttac gtgagacaag ctgtgattct ggttgatgtg 360
ttaagcagag ttatctgcct ttgctctgtt ctgcttggct gtgatagcta gagctgtttg 420
aatg 424

<210> 29930
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29930

agcttaaacn ctaaaacaaa ggtgtagaat atgganaagt aagtgagtga tcaactagga 60
naaaatgtgt gtatgtgttt cttgatttca aggttgtcat catcaaaaan gtggagattg 120
tagaagcaag cttcacgatg ttgaatcaag attgattcaa gttgttntga tgataacaaa 180
gatgatgaca aanagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 240
caagagacat ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat 300
caagaagact tcacaaggga agtattgaaa agatgtttta aaaaacaaaac atagcacaat 360
tttgtttttc aaaagaagtt ttcaccacat tttctaagtt accagagttt ttactctctg 420
g 421

<210> 29931
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29931

tgcgcgccag ctgcgccagg cgagcgagggt cacttctctt agatgcaaca gccttctgga 60
ggaatcttct ggagggccca agtgggcctg gttgctatct acaccccccc tatttactaa 120
atgcgcccc ctttctatct tgtaattctt tttccgtaac gttacgaaac tttacgaatt 180
tcgtaacgat acttattttt cttccgcaag gttacggatc cttacggatt atgtatttac 240
tcttttttag ctttcgaaga agttacggaa acttacggat tgcgcaaaaa cacctctttt 300

<210> 29934
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29934

agcttcgaag ctatggngg attttctttc ttgctnngga atnngngatt gcggtccttt 60
 tgtcctccat gtttatcttt acgttgctta accttttctt gatactatgt ttcttgacag 120
 tgcaagcgac actataccta gggatgaagt tgatcttata aaggatgttn tatcgatatag 180
 aatgagagtg agagaaacat gagagacaga agcgggcttg ttcgttttgt ccagattcgt 240
 tacttaggcc acccacacgt gaacaagaat gatccgtgaa ttcacctag cgtgacacgt 300
 gcttgcatat cagccacgat tagctcttat taactctccc caattctagc ttgaacttct 360
 agcataacca tcgactagta aaatcaagct acttaatcct gccttggtga cctgcact 418

<210> 29935
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29935

tattgaataa gtgcttaatt atgttgatta gtaactatca aaatggttta aaagtggaag 60
 tttacctggc tattaaggca aggatgattg cggaagttac cattaacagc ctttagtagt 120
 tctacaagat ggtagggta ctggcaagaa aatgctcgtg gtactatata tctgtgcaat 180
 gtgattgcct gaacatggct ccgtggcaat ccaagcatgt caagtagagt gtcacctcca 240
 cacatgatgg atggtgcccc aaaggttatg acaggaagca gagaggagaa tagcgcttcc 300
 ttccttatcg gtagcataag atttacaagt aatgccaagc tcccccaag ggaatgacca 360
 gtgaaacgga tagttgcacg tgaacatga gatttatgtg agcacgaatt tctggcaaca 420
 tctgttgata tgtccctttt gcagcctcgt atatac 456

<210> 29936
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29936

acaaccggcc agaccctgga gaacaatcta gntcacactc caataataag ggcacctgac 60
tggagtaaag agtttgagct catgtacaac gctagtgact atgcagtagg ggtagttctt 120
ggacaatgga gagagaatgc attccatgcc atttttatgc tagcaagatc ctgaatgatg 180
cacaactaaa ttatgcaact actaagaagg agatgttggc cattgtgtat gccttataga 240
agatccgagc gcacttaatg ggctccagag tcattatctc tactgatcat gcatcaatca 300
tatacctttt cac 313

<210> 29937
<211> 387
<212> DNA
<213> Glycine max

<400> 29937
acttctccaa cccttgacct gacttcttgg aaagcctttt cacagcaaac tctggggccat 60
ccttcagtct tccctgctaa ccaaattggt agaaatattt tgagtttagga aaacaaacat 120
ctatagttgg ttttccatat caccttgtag acaggtccaa agccaccttc tcccaatttg 180
ttactctcag cgaagttctc agtggctctt tctatgatgg ggaaatcaaa tgtggacaaa 240
tcaatgcctt cttttctcag ttttcgttcg aaatgggtcc tataaattat tcttgctacc 300
cctgataggt ttgaagataa caatagagaa gcactatgac actcacaatg tgcacgtatg 360
atacataaac ctactatcat atattag 387

<210> 29938
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29938

tatagaaaaa tttttccaaa tagacttata caactaataa ataatagtta tgaattaaat 60
tgattttatt aaccatgtat tggcaataca aattttttta cattgtcaat cagctaaaaa 120
aatatcattt gtataatttt ttttaaatta ttatatatga taaattgtga ttgaataatg 180
aaataaaatt aattaataac attattatat atatatacta ttttttatta ttaattntat 240

attactggaa atagaatttg gtaattaatt tatgaatttt tattctttaa gtgatgattt 300
aatgatagaa at 312

<210> 29939
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29939

tgtaattatg taatatattg tgtaaaagaa gtattgtaa ttatggatat tatgagttgt 60
ataattatat gacaattatc tactgtattt gcagttctaa ttataaataa gagtctccac 120
tgtgtagtca agacacagat tcattcacat gaactctcat ttttcttct ctcacaaggg 180
attacacaaa agattaaaag gcagaaagtt tgcttacctc caaaagttgg agttcttcag 240
atgcttgtct caatgaatct atcacatct cataattntc aaagactgaa aaagaaattc 300
aaatcagtca agtaagattc agttaaagcc ccaacaaggg gagagaaaaa ggatcaacac 360
cctcagaaaa ctattgatga aaatgtggng aaactaattt cccctattt gattattatc 420
ttttacagaa tcagaaattt ggcta 445

<210> 29940
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29940

tagcttgnan gattatggng taccatcac atgtggtact aggtggcggg cgggcgatgg 60
tgcacaacaa gttttccaca tccacaatgc ggcataaac ccaccatccc ctgttgccca 120
cctccatcta agctcacgta ctcccatgta gcccatatcc tcatttctct caacaccggg 180
tccccatcaa tcctctcaag ctccacaac atccaagcan aacaacattc aaactgcaca 240
agctatcaca gccaaagcaa acagagcata tgcagaaaac tntgccaaaa caccaaccaa 300
atcacagctt ttctcactta aagaccccag taacaattcc ttctgtctgg ttcattaacc 360
gttggatcga ctgaaaatt tactggaagt ctctaatact taagcctac 409

<210> 29941

<211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29941

ctgatgatat ggtgttcgcc ggcaaaagga tcgatgtggg tctgaaaaaa ggcaaattta 60
 gtcgtcctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag gatgaaggag 120
 aagcccgtgc tgtgactgcc attcctatac agccaagttt cccaccaacc caacaatggt 180
 attactcagc caataacaaa ctttctcctt acccaccgcc cagttatcca caaaggccat 240
 ccctaaaatc aaccacaaag actacctact gcacttccaa tgacaaacac caccttttagc 300
 acaaacaaaa aacatcaacc aagaaatgaa ttntgcagcg agaaagcctg tagaattcac 360
 cccaattccg gtgtcctatg ctgacttgct cccttatcta cttgataatt caatggtagc 420
 cataacccca accaagggtc gtcaacc 447

<210> 29942
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 29942

ttacgcatct gtgcggtatt tcacaccgca tatgggtgcac tctcagtaca atctgctctg 60
 atgccgcata gttaagccag ccccgacacc cgccaacacc cgctgacgcg aaccctttagc 120
 ggtcgcatcg tatattacta tcaataatag gtgctatacc gagtacttat cgagtaacta 180
 tgactaatat ag 192

<210> 29943
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29943

tgcgcnncnc cctttgtttc tcaactnnaan cntttttttt tattgttgaa taataatagg 60
 gttgtcaatg acatacatgg gtcttctact aagaagaaca aagagtacca agagaagcta 120
 ccccttggtg tgctcaaggc agtggaaatt atttactcta aagccaactc cgtggtaact 180

ttcctttcttc gtttcttgct tacttgcttg tgtactcaac tattttatgt tatgggtttgc 240
 aaaacaaaaa aggaaaataa aaatgacttg aggttatattt atttcttgag gaggttgaaa 300
 tagaaatatc acgagcatta aaagaaactt ttttagtggt ttgataaata ataatttttt 360
 ttgggtaggc tgaatacatg tttcaatatc atcttat 397

<210> 29944
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29944

tcaagaataa tggcctcagc aaacttctta ttcccataag gaaactctat aaataggcct 60
 cctatttttta atggagaggg ttaccactac tggaaaactc gaatgcacaa tttcattgag 120
 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctggtaata caataataga gaaacctata gaagagtggg tggagatga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatt attacttctg cccttggaat ggatgaatat 300
 tttagggttt caaattgtaa gagtgataag gatatgtggg acactctaca agttacacat 360
 gagggaaaca ctgatgttca aagatctagg ataaatactc ttactcatga gtatgaa 417

<210> 29945
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 29945

ccttctgtgc tcttgggtgg atgtgttatg gctatgcttt cacactttta attataacat 60
 tacatagcag gagtgactct gatggtgggc agtattctgt catggcatatc atgatcttaa 120
 gcatgcaatg ccgcaacacc ttgtattatc tattactgga tgcaccatct accaggggca 180
 cactaggcag tgcatagtgg agcatgagtg aatatccaac tatcgcggga cgctcattga 240
 tattcgagtg catttctagt gtatcatctg ctatatctat ctttggatta a 291

<210> 29946
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 29946

agcttccacg tttgtcagag aatgggtggc aataacagcc tctatcaaga agtggcgcat 60
cgcttcatca tcttacttta taatcgcaac ctcaaagagc tgatgactca ggtcgtgaag 120
acacctaaac aacaaatgaa ccttgagcgt cttatgggat ataattatag tatctagaat 180
tgggtccgaca gcacgaacat ggttgcagat gcattatctc acatttttga gaactcgtca 240
tcaaccttgc tacttctgtc agtaccatgt ttcacattct tggaagagct taagagccgg 300
ttggcccgag attcagtctt tcagcaactc cgacaagaca ttagcgataa cccgaaagat 360
tatccagagt atgtcatcac tcagaactta atcct 395

<210> 29947

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29947

tggaagata gtggcagaaa tntaactagc gctaacttag agcttaataa attatgagag 60
aaattagcaa agtaggctta cttgttaaag agacctatac ttaagaaact tgtacgcact 120
gcaagtctgc aacagttatt tggcccacaa gcatgtattt attcccttgt gcaaaatctg 180
atTTTTgtag gctgacccaa atagattagt ccaaaatgaa atcttctggt tttagcttta 240
atTTTTtgat taaaattact tttttttatg taggtaaata agttagttcg tgtaatttta 300
tagactaaac tcgttcttaa agcagatcaa tccgcataaa cctacttggg ctatggggtg 360
taaggactta tccacaatat ctattaattn taggaaaact atcaacgtac accctatntt 420
tggaagaaat tataatatg 439

<210> 29948

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29948

ngactcgttc ttaagcgaag atgttcgcaa gagagattca ggagaatctt tccgttatgt 60
ttccattca tcattgaata cctgaaggca gggaaagact acctagaggg gcagaatgtc 120

aaggcagatc aaagtcaaga gggaagggtca gagaaatttc aagtgacgta ctttgctgaa 180
 tgtgacaaga aggtcactta gcatcagtgc atgcaccaag aagaccagtc acacacacac 240
 aacgcgatga tgatgatcgc aatgcacact gatgactgag atgcattatt gcagttgata 300
 gtctgtgatc atgatcatga ctgaggctcg tcacactctc tctaagatat gctactaatt 360
 tt 362

<210> 29949
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 29949

taacaagatt tcggtgctga agtttagcaa tcagtttgac ttcattcttg aactctgtca 60
 ttccttgtcc cgagcctctt gagagcctct tcacagcaat ttcttgtcca cttactaatc 120
 ttccttaciaa aataaataaa taaattggaa taatcttaat cacattgaca ctttttgagg 180
 tctttttcct aaaacgacaa agaagattga atcaccttgt atactgggtcc aaaaccacct 240
 tctccaatct tgttgtttat tgagaagtta tcagtggcaa tgactattgt tgaaagggtca 300
 agtaagggga gatcgatatt ttcttcactt cctccctat tttgatcag tacaatatct 360
 gaatactctg ataaaatgga acaatggctt caatttagtt aaaggcaciaa tgtatatgat 420
 agtttagtca agtcaataac tttgcagcat tacatctttg 460

<210> 29950
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 29950

agctaggccc gtcccgtgc atctctctct ctcttgccag ccaagacctg gacatcatct 60
 tgcaaactct agcagcgcac gaacacttta tcaccatcca acctagtgcc aagcaactat 120
 ggaagacagt tggcggatcg accttatggc ctttaacaaag gcgatgggtg cgtttagcaac 180
 cttatggcac tccactttcc agacagtgcg agcagtagcc ctgcatttgg cgacctatac 240
 ctgcaaggac gtcaccttga gcaaagccta atggtgccac tcgccattct cctctataat 300
 cgccacactt tgctggagaa cactttggca aaagatggag cgttcgatac cccagccaac 360

caaatc

366

<210> 29951
<211> 458
<212> DNA
<213> Glycine max

<400> 29951

actcaagctt gacagagaaa ataaactgtc tgagttagat ttccatctgt gctttaatta 60
cattgtgcat tgagtcgcaa tgtaatttgt ctttgtgcta gcggactcta tgcaaggttc 120
actctgagta cacatatcac aagggaggtt agcacactaa tctgtgaagc tagcacacta 180
atctaaaata ttaaaataag atttaccagt tttagcaaaa gcaattttta ccattcttgg 240
ttaagtctac ttcaaccatt tctagttaaa aattcaaaag gcacaatacc catatatgga 300
aacatttggc atgtccacca tggctataaa atggtcatta atgttgtcaa ttcgatcttg 360
tcaacattaa gcctaaacaa gtttcatttg gaccaatcct taagccttat ctctttactt 420
ctccaaaaaa aaatcccact tggaaccttc attcttca 458

<210> 29952
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29952

agcttgatgt ctttagactg aattaactcc ctgatgnaaa tggggtctat gtcaatgtgc 60
ttggatcatt cgtgggtcgt atggttggag gcaaggctta caacaaattt attatcacaa 120
aacaatatca cagaggacac atcaatttca aagtgaagaa gtaacctttt caaccaaaaca 180
acttcactag taacaaaaga caaagcacaa tattcagcct cagtggacaa tttagaaaca 240
attgattgtt tcttagaatg ccaagagaga acgttgtttc ctacaaatac acaaaagcca 300
gaagtggacc ttctggtatc aacacagcta gcccaatcag catcagtaaa ggcaatgagt 360
ttgagagagc tctgagcagg anaaaataag ccttgtccgg gagcatattt gagatact 418

<210> 29953
<211> 457
<212> DNA
<213> Glycine max

<400> 29953

tgtattgatt ccatgaagtt gaacaattga ctccaagcaa tatatatgaa cttactttatg 60
gacaaacaga aatgcagcac aaagtaacaa ggtgcctgta acaagaatcc atccaataac 120
caccaagctg cagccacgat aaaaaaaaaa aaaaaaaaca gaacatcttt tactgataga 180
aacttaacgg gagacaaatc tatcagagtg aaggaaatga aatgaattca acttacgagt 240
atacaggacc cggcaaagca agtaaagaaa atactgcaaa aattaaatca agttcatatg 300
atttggttaa cattgagtat agagtaagaa aaagaaaaaa gacaaaacca aaatcaaaca 360
tacacaatcc gagaaatgca acaaagatca taacagcagc aacagtaaca agagccagtc 420
tcctgcagat gatcacaaca agcaatgtta attaatc 457

<210> 29954

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29954

ggtttgtatt gccatthttgt tctaagggtg gcatttcttg gtaaaactaa ctttccaaat 60
gtttgccttc gcangaatgg ccccgaggaa gcttgcttca nagagggtcca ggaaggacaa 120
ggcggtcgaa cgaactagtt ccgctccgga gtatgacagt caccgcttta tgagcgctgt 180
acaccaacag cgcttcgagg ccatcaaggg atggtcgttt ctccggggagc gacgcgtcca 240
gctcanggac gacgagtata ctgattttcca ggaggaaata gggcgccggc ggtggacatc 300
actggttact cccatggcca agttcgatcc agaaatagtc cttgactttt atgccaatgc 360
t 361

<210> 29955

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29955

actcaagctt actaaaacag gagcatatct cttctcagat cctactctat atatatcagt 60
agttggagct ctccaatact ccaccataac cagaactgag ctaagttttg ctgtaaacaa 120

agtctgtcaa ttcattgtca tactcttgaa actcactgag cagtagtgaa aagaattctc 180
 aagtatctaa aaggctcttt acaccatggc ctacttctca nagctgctac tccaggaatt 240
 accattccta ttaaggccct atgtgatgca gattgngctt ctaaccctga tgatcacaga 300
 tctacttttag gagctgctat ttattttggt cctaacctta tatcttggtg gtctaagaaa 360
 caacagattg ttgcaaggtc aagtactgaa gctgagtatc gaaacctatc tcaagctaca 420
 actgaagtag tgtggatnta ttagaattct aacagtatca taga 464

<210> 29956
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29956

tctagtattc aaagaccttc ttctgtaagt gtttgttgtc tctatgcgaa tagaattctt 60
 cacttgagct ttgtcgcaag ctaccctttt gcggcgagc gaggcaaggc tcacaggtgc 120
 gtcttcata ggaagaaaat gcgcggagtc tccaccaacg tttattgaaa ggaaaacggt 180
 agaaaaatca aaggaaaccg gtcattgaaga atattccaga ttcgggagtt atctttacgt 240
 ttgaggaagg tattagcacc tctcacgttt gtcccaaag gacaacagcc ttagattaga 300
 attgtgtgaa attatgtatc taaactntta tttctttttt attttttgag gtcgacaaaa 360
 gcggtgctct tgctcctacg taccctccat cgaagaggaa atcagacctc cgtagttctt 420
 tcanaaggga caaatcaatn gattct 446

<210> 29957
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29957

tttgcttact cttntctct tgcaaccac tccaatttca agaaaccccc ttctctgcca 60
 ctctacaga tntctttctt tatattntaa tcgtttttt ttctttttct gctggttttc 120
 tttttccctc cactttcata tcttcacat atattgtcca tttcttggtt tcctctctct 180
 ctttcacca ctttcagaaa agattctcac tgtcaacttt tcttgttttt ttcctttaat 240

atccagatgc tgaccagcag cagctacttg tatgttttgt taggtactct ttattatcaa 300
 ttatgaattg gagtattttt ctattttgta actcttagta tatattaagt gagtggtaaa 360
 taatattaga atacccagtt gtccaatatc tgata 395

<210> 29958
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29958

ggcaagaact ggctcaacaa aggctaatta tgagtgtaga gcaattcatt gagaagggtgg 60
 tctggccttg agcccgacct tcttttgtgg gggataatga aagttttaca acccaggcac 120
 ctcaatagca tgagctagag ccagaaaatg atcactcatc tgaagccatc atccctggag 180
 ctgttgattt ttcgaaaaga agattagaga caagatccaa tgaggctgct catcctgggc 240
 cagtgcctgt atcagctgat gcaccatttc caggggtgga tccatcttca cctcagcacg 300
 cagcagactc ttccactcct gtcttagaga tacctgaggg ccagaccata ccagttctga 360
 ctntggacac ttctcctnca gctactccag tattgcatct gacagatgaa gaggatgttc 420
 anacacagga tacccaagac cagtcaca 448

<210> 29959
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29959

ttagcttcca tcatcntnta aagctgtccc cccacatggt cacttgatgg aatgngtcat 60
 atatacccat ccttttctgt aggactagtt gagttgatga agagttcata tactataaat 120
 catgcaaaaa gaaaattcac atctcaaatt ggagattcaa tgcaatgtag acaaggtaaa 180
 atgggaaaat ntagacttgg ttctctataa aactggcaat tgatttgaaa actggaatat 240
 gggtttgctg gaaattgaat gaaacctcaa catcagaaac agcaagattg aacttttcac 300
 atngggtatg ttctgggtatc tctaggattg gccaaaggaa ataactgttt tctaaacaat 360
 actattaana aacaaaataa catatgtttg atgccactta taag 404

<210> 29960
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29960

tctgaccaag ataaanaaaa gacacactaa ctaataaaaa ttaaataacc acgtttaaga 60
 gtgttttttt ccccccttaa atgcaatata taaagtagca atgtttgtca tattcataga 120
 catagttgag agtttactcc ttaggtaata ttatacttta taatcattta atttttttta 180
 aatttttttt atcaatttta aattgaattt attttatata tgaagtatca aacatttttt 240
 tttttttttt ttataaaatt tgtagacatt atctattcta taaaaacttc taatataatg 300
 attggatcat tgaaatttaa tatcaacaga attatcaaata tgactaactt taccaagtta 360
 ctcttgaagt cgcttgtctc aatcttttta gatactaatt tctttaatct cttttacaca 420
 tgcattgata ttttcttaga tattga 446

<210> 29961
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29961

tctagcanga ngttttaata ctgagangac atgaaactat atgacngaca tttcttgaag 60
 attgtgtttg acttaccac tatgcatcca attttaaatt gtttgtaaata agaacaaata 120
 acgaaaaaga tgggtggaact cacaaccaa gaggagggtg aattgatttc taaatcaaat 180
 caaactttta aaaaatagag ctataaaaaa cttcttttcc aatgatcgta tcacaaactt 240
 ttgataaacc aatatttaata caatcatcct ttacacaaag tcttttgcta taattgtttc 300
 ttataatata ttctctttaa ccttcagtaa attgatcaag actagaataa gaaagataga 360
 tatgatcaag agaagatgtg caccaatttc tatattgggt cactctcta 409

<210> 29962
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29962

taactgaatg gagtcgttgt tggggaggag ttcttcgtga tcttccttggg gttgtgacca 60
tctagtatgc tcataatgta acattatggt ttctataatg attgattaag tgttttaatt 120
aaattgtaag agtaattaaa tttaatttgc gtgtcgtaat ttgtgggtgtt tatagttaat 180
gtttttgtta tgcttatgct tatgcttaaa ccttatttta ngtgtgaata atacgtttta 240
gagtgggttg accgaggtaa gtgggccttg agtgataagg atgagatgag tgagtttaga 300
aagtgaaaat gtgagattag aaggaatagg aagagtcaga gactcaacat atagggattt 360
aaatntgaac cagatcacia acactctcat tcctctcaa aacaactcac aattagagaa 420
tgtgagtcac tgaaatccta gtacaaa 447

<210> 29963
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29963

tcttccttgac ggtcatctgt ttagtccttg tggcatctc gagagtctcg gtggccatgg 60
tggataggtt ctgagtgagg caatatacaa cctcttcaag gcgggtccatg gtgggtgtgg 120
ggccgttgtg agcgagcatg attagaggat ggtgtagggg ttccagtaag ggaagaggca 180
agtaatggca gccatggatg ataggtcaaa acaatttgtt acgaacatta ctacactatg 240
ctatgctaac tacactatta ggtatttcat aattcttctt tgccttattt cattactgtg 300
gtgtatttat aatgatcata tagagatata atttggcact tttggcccat aacaaanaag 360
tataacagaa atgcaaaaca acatagtaat gggatcatac tagtttggtg taac 414

<210> 29964
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29964

tatcaacatc aaacttggag aaagagttct tgtgggtcaag acatgagaag caatcaagta 60

taatgttact tccttcacta aagcgggtgat ccatctccac acatatttta tcaatagcaa 120
 cataaaaaat ctctggacgg tcatgatgaa gattagtgat agtctctcct tctgctcttg 180
 aacgaccccg aactgggtata tcgtcatcca tatttggtac cagaatactt ttagcaacac 240
 aaaatccttg gacatcggca aaaaaattat tccagccact ctctctcatt gtgccaacc 300
 gagctttgca acatcaacta attccatggc attcacaata ttaagatctt ntcttcgcaa 360
 tatatctgaa agctcgtttg tttgctatga cctgtatcac gcacaa 406

<210> 29965
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29965

tttgcangca agcttgtanc ttgngacca actggagctn ntcacactgc gtggtgtgga 60
 acgatggcgt cctcgattgt ctatacaaca ttgntcaata ccaagtacaa tgaaactcca 120
 tagcgatgaa gaacatgaca tcaactgtgag atatatatgt tgagataaaa naaataacgc 180
 attatgatgc atacgagatc cgatagatag gcacatcatc atggatgtta gtttgcggtg 240
 atgactcgta tacgtcttct atgttttagtt gacgaagtan gaagactcac cccttacttt 300
 tt 302

<210> 29966
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 29966

tcttatcaag gcactctctt ggtggtaaag tctttccttc catggattat tctctagtgg 60
 atggcgcttc ctctcacctc ttctccttta tcttcgctg caactccatg gctaaaaatc 120
 accattgaag gaccttattg aagctcaaag atccagctc catagaatct tatcaagcaa 180
 gcttccatca agcactaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240
 ttaattttca gctttacctt ctcgctccatt gttgtttttt tacttttctc catgtatctc 300
 ctccatgtc ttgtgctgaa tattttttatc atgaatcttt agaatttcca ccaattaaac 360
 ttgctataaa agctagattt gattttctat gggtcaaaat tcttggtctt gttcttgaac 420

catgaattgt gttgagttt

439

<210> 29967
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29967

agcttcctac tcaattagtc ggntgggttg ggttttctac ttaatggact tcattgtcaa 60
cttaaaaaat gatatgtgac tacttcatac ctgtatatga gttttgctaa ttgtgtcgag 120
ttgttccttt atccagacag ttgttgcttg tagcttttgc aaaagcaatg atatttatga 180
tcaagacatg cacatcttct cattacgatt gtaagtgatt tttattcttt gttttcatgt 240
ttaattttgt gcaagtaaaa taagtatctt ctctgtcatt cattcttatt ataactcctt 300
ccatgtgatt gatgtaatat tgatgacata caccactaaa acatatgata cacttgagaa 360
gagacccgga naagattcag taacattta 389

<210> 29968
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29968

tatacattta gttaaacttc atatataact ntaaactta tggcatataa gatgattttt 60
gaatatcggt aatggaatac aatcttactt aaaatggata aaattattat agaagatatt 120
tataaattaa tagggatttg ggattcatga ctaactatca gtattattta ggacgtattt 180
cactctatgg agtgaaaaaa attatgtaaa atgagaagta attatggatg tgtctattat 240
taatataaat aaaatctcct ataaacagaa tccaattaaa ttaaaaaaaaa taaaataaat 300
gcacctttct ttctactctg tacgcgcttc tcacctttta cagcaaaata gaaaatctaa 360
aattaattta ggttgaaagt agtagttcta atttaaattc agtgatatct aaagtgataa 420
agttaatctg tcgcttacct 440

<210> 29969
<211> 359

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29969

agcttcccaa tatggagagc tttatcttct gttgganctt ccttgtaggt acttgatgta 60
aatacctgta tatctattta atgatgtttt atgtgttgct tgtgctatca gtacttcatt 120
tcagtgtgct ttttccttga tcatgtagat gcatgctttg ttaggataat tcaacagtgg 180
aaactggtct gattctttaga acttgatagg acagggctag tttattgtat tatcacgagg 240
aatcgngta cggtaaccta gttgtttgta tgtttgtctt aatgcagttc tggtcgagtt 300
tagtccaaca agaggaatct gangatgatg cttggtcggg attaagctag actatcatg 359

<210> 29970
<211> 460
<212> DNA
<213> Glycine max

<400> 29970

gctttccagt tatggaaagc taaatcctct gttggatctt ccttgtaggt acttgatgta 60
aatatctttt ttatctattt aatgatgttt tgtgcgttca ctgtgctatc agaacttcat 120
tctaccatgc attgccttga tcatgtagat gcatgtgtat ttaggatcat tcaacagtgg 180
aaactggtct gattcttaca acttgatatg atacggctag tttagcatat attcacgagg 240
aatcggggta cggtaaccta tttgttgtat gtttgactta atgcggccct ggctaagttt 300
aatccaacaa gatgaatctg tggatgatgc ttgggcagga ttatgctaga ctatcatgat 360
gaatcggggc tgagcatttc atgagatacc atataacgca tgagcattgt tgagtagaga 420
atatgctttt agcatcagac acctattatg aagaccaacg 460

<210> 29971
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29971

tttcctctg ttccngcaag acatggaggg ggagcgacct atgcacacca gnngcatctg 60
agaagaagan atgaaacnct aacgccccaa aagctttatg tgccaactcg acaggtaggt 120

gacaagattt tccatagacc aactggaaag acataagtcc tgtgggggct ttataggcta 180
 ttctgtatgg ccacaaatct taatctagtt tcagggaacca atccttcctt gattgagcaa 240
 ctatttcatt tagaattatc ttaacttccc tattagaaac ttcaactttc ccattgggtct 300
 gagggtggtg aggtgaggct accttgtgtt tgacactgta gtgtaggagg acttttgata 360
 gccgtgtatt actaaaatga gaatctccgt cacttan 397

<210> 29972
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 29972

gcttgcacca acattcatta gtccaataca cactcaacag atagtcttca tccatccact 60
 attccaatca ttcatgcgca atatgatgca tgcacctgac ctcaactctc atgtgcaatg 120
 tggatatcatc ccaaggaaac agcctaagtg tgtccacacg acactctcac ttaggaaaac 180
 tatgtagtaa atgtcgaggc caccctgtcg ggcacaggca actccccccc 230

<210> 29973
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 29973

caaatttcat ggatcttcca ttgatgatga tcatggaagg ccaaactc aatcaatcca 60
 aggatccact ccaagcaagg ctgaatttga gttctcgggt agtatttcta atccatgtga 120
 atgttcatct gtttcttcaa tctatttttg gattttcatg attatgaata tgcttaggat 180
 tgaaaacaaa ttagtttagg aatttctttc ctaatcttga ctttaatcac agattgctta 240
 gatgatattt caacctaatg tgcgatctca atgaatttag agattgattc gattgaaaca 300
 cttctaataga cattaattga act 323

<210> 29974
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29974

gaattcgcgga cattgcgctt agcgctaccc tgtcgcttag ctctagtaag tggatctaag 60
cttagcgcca atcggtcgct gagcctggct gaagacaact aatatgctta gtgcaactgat 120
ctcgcgctta gcgtgcggcc ttgatattga tgccctgccca gattcttctg tcgtgctaag 180
cgcgctgaag ctgtgcttat cccaataatg agctcagctc aactgtcact ttggggcactt 240
catgacttag actctatttc acttgaaatt gcacatatgt catcattaaa tccaatggat 300
atattctaga gacaacttta tccatacaaa aaaattatatt acaaaaatca ctacaaaata 360
accattaatt ggagaactat actagttttg gaatatgaat tctatacana agttagtcgt 420
ataaggcgac taacagtgac catga 445

<210> 29975

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29975

catatatatc aatatattaa aggggtgntg acgctctcca cttagaatca atgccttcat 60
tgtgaattgc cttcattgta gacaatttaa cctgaacca gattaaagaa caacacataa 120
aactcatata aagcggaaac aaataagcgt aagcttcaaa caggaaattg gattaatact 180
gcatgtgggt gcaattcttt ttttaaaact ccataggatc cttaaaccott tttcattatt 240
at ttgggttaa tgtttatgga cacaataaat ggaatatata aatatattata cattcgctat 300
aaagaaagaa aataaaaagg ggtgcgcgcg ttcggaacat acaataagaa agtggtttgat 360
atgccatggg atcaacaatg catccaacaa agagtaaaca agaattagac gcaaatcaca 420
ttgtctcaga ttacttacgc aatccgt 447

<210> 29976

<211> 210

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29976

ttgcagaagc tgctggttgg tngacanaac aagaggacgg gcccaacata aaaacaaacc 60



cgctcgccaa ccatggaggg ggggaggaca atgccaacga ggcgagaaaag ccacacgggc 120
ccaagcatgg caaggacggc acgaccccca gaaggaataa ctacaaagcc tggcacaacg 180
cgggcaagat accctgcaac gggcacaaaag 210

<210> 29977
<211> 426
<212> DNA
<213> Glycine max

<400> 29977

tgaggtggat tgcaatggag aaggtgttgt ttttgctgag gctttcatgg ccagaggtct 60
agtgtattat tccccctctc ataatacagg tcacagatta attaatctct tcaacttttg 120
gaatttctag atcatgaacc gaaaatccta tgaccacagc ttataaaaaa gaagagaaaa 180
acacgtctaa ttataattat tatattcaat tataagttta tttatcgatt aagtatgatc 240
atcattatga agatattcaa atgatgacct actgggtttc tgttaataata acagaggacg 300
catcaagtat ctaatacaag tgttatgggc tgggtgtgtca acgcacaaaag cttgtgtata 360
ggaagcttat ggtggtataa tcccctgcag aaatacaaat attaatattt ttaacagatt 420
tgtctc 426

<210> 29978
<211> 142
<212> DNA
<213> Glycine max

<400> 29978

tatccgaacc tacctactca tactttatgc ctagactgat cggtactct gcccttaat 60
ctttctatgc atagagcata ctgtcaatga gacagccaag taccaactaa tctcaagaga 120
aacatgtcat caagcttcat at 142

<210> 29979
<211> 355
<212> DNA
<213> Glycine max

<400> 29979

ttacaatcgt tgaccatgat ttgagaaacc gtgagggtta atatcactgt tgctatgaca 60

atcttttgtt atagtcagtc cacatggtag ttatgtcaca gggaatgttg actataaata 120
tcacgtctaa gctatcggaa ctgactccga acttggatac tgactatagt gattcaacag 180
actttttgag actacgggat ctatgagaga ctgagcatgt attctataat gactatacaa 240
agtattttcg cactataacg actattaata tcatactcct gagactatgt atagagtaga 300
tgagttatat taagctatgg atcggacatc atcaagtata ctgcttgatt atata 355

<210> 29980
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29980

agcttgatnc tcgaatngat tntagcctta gtttcacttt gggtattagt caattcgggt 60
aagaaagaaa aatcccanag aanaacgtcc gatttgattt tttgattatt ttattaaaat 120
atatattttt tattattata ttactatttt gccttttttt tgttttaaata gtgggttacgg 180
catgacagaa cggtcgaatt tcattttaac agaaattaaa agatgttaca attcaaatga 240
tcggtggaaa tttattttat ttttgattag gcgaggaaat gacttanata aatgactaaa 300
gcacgtcaaa agaggggtatg gaaagtaaata gaaataaaaa taaaagcacg cgaaacaaat 360
ggggaccact aagggtacat agaatg 386

<210> 29981
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29981

nttaactgaa tttgcaacgt tctaattggt ttttaaattg tgtaatogat tacaatatat 60
tggtaatcga ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120
atcttttcat aaaattattt gtgtaattga ttacatgggt ttggtaatcg attaccagtg 180
acaagttttg aataaaaaatc aagagatgta actcttccaa tggttttcag gtttttctca 240
aggttataac tcttccaatg gttttttctg accagacatg aggagtctat aaaagcaaga 300
ccttgacttg aatttcaata actntatata tatactttta catcctttga atctctttga 360

acatcttttt gaacttcttc ttcttcttct tcctttgcc aagctttct gagttttctg 420
gtttccaaac cttgttcttt 440

<210> 29982
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29982

agcttgacag gtccaggtgc ggttgctgct actggtggag ggacttcaat ttgcttgcca 60
gacctcaagg tgatggcact cacattcttc ggattntgca ccatttgtga aggcaatttg 120
tcagaatttt gggactgagc ttggttcaac tgagtagcca tctgccccat ctgatttctc 180
agactctaaa tagaggtctct tgtctctntc tgaaattgca tattctggat agtcatttgc 240
ctcactaact cctctaagga aggttgagaa aagggcctca gttgcttggt gtctttgttg 300
gtggtgctgc attggaggag gaacatatgg cctgcttgga ccaacaacat tctggaaggg 360
agggacaggc t 371

<210> 29983
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29983

tccctttctt tggccaatgc tggactcgtt tggcagtgat ttccttgcca atctgatgct 60
cagaaacatc aatatccacc actccttcag taggtctgcc caggtatttg ttgatcaccg 120
caggggagaa tctaacacac tttcctctga caaacactct ttgataatca tcactttttc 180
tgtttgttat gtcagaggga atgttgacaa taaattccct gactaggctt tcataacagt 240
ctcccaactt ggtgactggt ttcagtagtc cagcagcctt gatgagttcc atgggtctct 300
tgcaatccaa ggcatttctt ccaggttctc tttccaaggc aagtctgcgt tgatacacgt 360
atttccacct ttcagcattg ccaatggagt ggaatgagat gttgtccaat ggtgcatcan 420
ggacattntc aggcaccttt ttcccagatt tcttggt 457

<210> 29984

<211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29984

ctaagctgag tcacattggg ggttccagtt aaacctgcgc tgtgtatata cctcattatc 60
 aattggccta gtatcaacaa cgttatcaac tgtttgaatg ccctccaaaa gagttgggtg 120
 anaactatca ttacttgaag gcagatattt atacacgact aataatccaa gagtgaatat 180
 agcttgcagc ttcgtagagt ccccttgaac tgagaagaat atgagcatgg cacgtatgaa 240
 cagatccaca cagagacgca tgatgcatat tacagtgtct attaacctcc catcgttgcc 300
 tgcggggaag ccacgaactc gatacacaaa cagagtattg tacttgtcaa ccacatatct 360
 atacccaaaa taaatggcac caacaggaac cacaatggga ttaaatgaac agtatactag 420
 agtcagggct aatattgtca aattaaaggc gtaatactgt gc 462

<210> 29985
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29985

agctntggcg gtcnttggga ttttctcaag ccccaaccca tcaatgccta agacaaatcc 60
 ttttgggggt tcatttaata atgtagcaaa caaagttacc aagctctaca gttacattct 120
 ctgttcctag tggagagttg tttaaaacca gcattcttta atttctcaag ccncagtc 180
 tcttcaccaa ccagacaac aatttcaggt gcattctctg gtggcttcaa tgctgtggca 240
 gctgttcccg cacaagctcc aggtgggttt gggcagccag cacanattgg atcagggcaa 300
 caggttcttg ggtcagttct cgggtggtnt ggacaatcaa gacagcttgg tagtggtttt 360
 gctgctccta gtggtttcgg tgggtggattt gctggcggtg gttctcccag t 411

<210> 29986
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29986

tgtcactttt gggaggattg taccaaacca tcacccccag atcaatcttg actgatctaa 60
 aaccccatth atgctagtgt acttttattc agtcactttg gaaataattt atagaaatac 120
 tgtgccatat atttttgaaa caaacattat aataaaactac ccacatactg actntaaaca 180
 agtacttatac atttagttaa ttcatacctaa atacatggat atgtccaaaa tcttacttga 240
 agcaccaatc tgacattata aacaatggcc gccatctaac actagcattc acttgtgact 300
 ctagatattt ccagcaagtt cattgttcaa aatcttaatt aattgcgaga ttctgcccta 360
 ttttgcatag ataaaaagta atataatata gattattntt tacttanaca agtagacatc 420
 taggatttgc aatanagata gagcaactaa c 451

<210> 29987
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29987

agctttcagg tttanactna cctaagcaca gtcttagaaa ccttacatag gctccgtcct 60
 tgaaagcaag ctttctaaga catttctaag acagtgcata cgtaagcact gtccttgaaa 120
 gcaagctttc taagacgatg cttacgtagg cacagtcttg gaaagcaaac attctaagac 180
 ggtggttacg taagcatgtc ttagaaagct tactttctga gacgggtacct acaaattacc 240
 gacttcgaaa gttggctatt ttccaagacg atgtgttctt actcgtcggt gaaaggtaac 300
 actttcaatg gtgttagctt ctacgacggg cgacaatcgt ctttgtatat taatttggac 360
 cgtcgtagaa aaaccatttt tcagtagtgg tttaaggaag ggtgaaactt aattccaact 420
 cattcac 427

<210> 29988
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29988

tctactgagc acaaataaaaa acaaagcaaa atttattttc aatcctacaa aaagaaccat 60
 aaattgggga aaatatatac attttgtaaa agttttctat acaaaagtta gtcgtataag 120

acgactaaca acatccatca aatgaaaatt caaaaaccaa aaggaataaa caaatcaagc 180
atgtcagagc aaatttatta ttatattcaa caagatcgta aacattggag agtaccgtta 240
gtggtggtag tccaccggag tgggcagcag gggaataaag tgtccttcgc ttgtcatcat 300
gcgttaggtc tcattcttctg gcaatcaatt ntgatttcaa cttgaatgtg aacaagcgcg 360
tttatgtgtg tagtggtgag tgagagggga agtggaacat gtgagtttct ttntatttaa 420
gtggaaaata ttctaagacg gttatatggg aaccatctc 459

<210> 29989
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29989

tccttacgca tctgtgcggt atttcacacc gcataatggtg cactctcagt acaatctgct 60
ctgatgccgc atagttaagc cagccccgac acccgccaac acccgctgac gcgaaccctt 120
tgcgggcgat gagaatatga ccantggtgt tgatgcacta ttacatgccc ctttgactta 180
tgacttgatc gcg 193

<210> 29990
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29990

cgtaatccta tgaagctgtg cacaatcnga cgacntcagc tcggacccgg gatcctcaga 60
gtcacctgcg gcatgttgct ncatatttcg catataanga acataaagct tgggatcgat 120
cgggcccccg gtaaaggagg ccatggaatg gctcaatttg gtatgggacc aatgaaactt 180
ttttgattta agtcataaaa tgatgccaag gtctgttgat ccgctgaaac ttatgacatg 240
gctgatcaca agaattataa atgaagctac cctggattca aaagaatcca agagttgcat 300
gaagacacat caagtccttc tatacaatgc tttggcattt cagactctg tcaatagttt 360
ctttgaatgg caggtaacct gnggttattc tatttattaa ataaatataa ttaattaaat 420

<210> 29991
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29991

tggtttatga attgattnta gccttagttt cacttttggtt attattcaat ntgattaaga 60
 aagaanatcc caaagaaaaa tgtccgattg gattttttttt attattttat ttaaagatat 120
 ttttttgatt attatattat tattttgcct ctttttggtt ttaaaccatgg ttacagcatg 180
 aaagatcggc cagattntat tctaacagaa attaaaagac gttaaaactc aagtgatcag 240
 tggaaattta ttttattttt tgattaggcg agaaagtgc ttaaatatat gactaaagca 300
 caccanaagg tggtagagaa agcaaagat atanaaataa aagcacgcga aacaagtggg 360
 gaccactaag ggtacataga atgaattgaa tggttcgatt tcggaaactt accggttgaa 420
 gaccaaaca cgacgaagaa cgatg 445

<210> 29992
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29992

tcgcttacca attgtggaag tgaagctctt ccatgccttt ctagcagggtg gaaggcttag 60
 ccttagcctt aggcttatgc aggatttcat tgataggagg agagagcaat gcttcaaactc 120
 agaagaggag gatttaatat gtgggttaaa gttaaaactca agttcaaatg gaaacttggg 180
 tccttaattt ataacatggt agcatgggtt agattccctt ttttgcagtg tcatgttgcg 240
 gaatagtata ttactgtatt catatatggt ggttttgctg tgaggggtgg cttagttatt 300
 acgcgctcaa tattttttga caagacgagc atanagctgc agtaggtaaa atctgccaaa 360
 ttctccagca ccaacgacct agcttgctta attattaagc tgacattaa 409

<210> 29993
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29993

caattatcta cattatccac attcctagct ttctttatcc acatctacaa aatagtcctt 60

agatttcctt ctctctttct tttgtataac tgtgtcatat ctttagatctc ctttcacttc 120

cttcaaacaa caaaatcatg ggtctgagag acattggtgc ttcactgcct cctgtgtttc 180

ggttttatcc gagt gatgag gaattggtct gccattacct ctacaaaaag atcgcaaagt 240

aggaagttct gaagggtacc ttgggtcgata ttgacctcca catatgcgaa ccttggcaac 300

ttccaggtaa atatataatc attctaaatt atatatatat atatatatat atatatatat 360

atatatatat atatatatat atatatatat atatattctt ataagctatt ctgaattata 420

caccttcta tagcttgatc tctgtggttn 450

<210> 29994

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29994

tgtaggatta tggggtaccc atcacatgtg gtactagggtg gcggtcgggc gatggtgcac 60

aacaagcttt ccacatccac aatgcgcgca taaaccacc atccccgtt gccacacctc 120

aacggagctc acgtactccc acgtagccca tatectcgtt tctctcaaca ccgggtcccc 180

atcaatcctc tcaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240

tcacagccaa gcaaaacaga gcaaaggcag aaaactctgc tcaacacatc aaccaaaatc 300

acagcttttc tcatgtaaag accacagtaa caattccttc gatccaattc gttaaccggt 360

ggatcgactc caaaatttta ctggaagtct atagtgtata agcctacatt ntgaccgttg 420

ggatatacta gcanacatcc agaacgcatt 450

<210> 29995

<211> 304

<212> DNA

<213> Glycine max

<400> 29995

tcttgaacga accccttaaa tgcaaagcca accatctctg tccccatcca ttcatttctg 60

ccgccgaaca ggtgatctgg atcttgacct ccttcccctg cataaaaggg ttacagtaaa 120

taaacaacgc accattgttaa cataaatatg aagcctgaca aattcacctg tgcagcttaa 180
tcttatatga tgatggaagt ttgtctgaaa aacataaatc ttaatcttga aaaactctgg 240
caacaaacct ggaagaatca agagaagtat atggagaatg cctgcgctga gaatgcttgc 300
tatg 304

<210> 29996
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29996

taggattaaa gttcagaaac ttaagagccc aacaagcttt atgctctagc tctatgggta 60
ggtgacaatt ttatcaaaca caagtctata aggagacata ccaatgagag ttttaaagt 120
tgtcctataa gcccaaagtg catcatctag ttttaattgcc caatctttcc tagatgcact 180
aactgttttt tcaagaatta tttttaactc gctattggac aattctatgt ggccactagt 240
ttgtgggtga tatgggggtg caagcttttg agtcacccat atttagccaa gagggcatca 300
tacaacttat tacagaagtc agtgcctttg tcactaatga tngctcgagg tgtgctaaat 360
ctgggtgaann atattttctt tgaaactttt ttaccaccag agaatcatta atg 413

<210> 29997
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29997

tttgcattgca gcttatctat tctcttttat aaaaagaggg gaaataagaa aagtgacatg 60
ggatgaaatt cttttatatt tccatgtttg taatacttcc tttccaatgg aaacgtcgga 120
aatccaactt atgaagagaa aggggtggtc gtagaactgt cattatgcat atcatggtag 180
ttacttatga taatttgagt gatgcaagtc gtcttttatg tatattgata gaatacaaac 240
tctattgatg agaatggaag agtatagcag tcaggacaag acatcctcga acagtagata 300
gaagaacaaa ctatagaata caatagaaga tataccagag attgacatat gtacattcaa 360
accatctaga agtaatgctc tttgaagagg acaga 395

<210> 29998
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29998

tattgtcatt tttcttttat tntcttctct cataagtatt tatggagaga tttatccaaa 60
 caaaaatacc atgaagaaca taaaattagt cagcttaacc tcaaaagtac aaagaagggt 120
 aagtcaattc ataaactatc attatgttgt aacacttaca atttggaatt catctaattt 180
 gcctcctgaa caagattgga aaatgaaagt agcacaaaca gtaacgaata ggtcttgcta 240
 ctatagtgga gagaggaaat tctgatggtc ccacaaatat aacaagatat aaatattaga 300
 taaattactt gttccttaat ttatttactg tgataacaat tgagggtggg tgcattgagca 360
 atggaagaga aggaactaat aatttcttaa ttatatgttg agcaaaatct attaaataaa 420
 aatggacatc aaaagtaa 440

<210> 29999
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29999

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 tcgtggctaa tatcatcaat cttgtccaat ctcagtgcag tcttcaccct ttggggagca 120
 tgtctaggca cagaaccagg cctcaccagg aacactgatc gataaaaatc gattctaaca 180
 tcaaaagtac taaacctcac acctaaanaac cttatctgtt ttgtgatctt gttgcctttg 240
 atttcataga cactcttctt atcctcaact cctgtcatta gcaaacatat catggactcc 300
 cattgcgtcc tactcaaaga atcgccgacg aanaccaccc ttttcccacg aagtcgttcg 360
 agtattccac ggacatcaaa ccttggaatc tcacagttc 399

<210> 30000
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30000

tcttccataa accataattc cctcctctgc atcctgcaca cattcttgcc gacttttttt 60
 caaactcata tatatgttgg gaaatcacac aattgcccc gtccttcagc tagctagctg 120
 gatttggttaa tgtagtgccta gctgaattta accaagattg tgaattagca ataataagtt 180
 aataactcat caaatctcta tcaacttacc ctatatacat aaacgtctct gttttttaaa 240
 cttttaaaat aactccaagt caattcatat tcttttagact ttagtggtca cactcacaca 300
 ctaccaatat aaataatttt acaatctttt gaaataaata atataaaaat catataggta 360
 gtatatgatc tattcattta ttntttcttt atcatactta taaagaagcc atgcatcaca 420
 nagtaacccc atggaagtgg cg 442

<210> 30001
 <211> 101
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30001

agcttgcca gtagaangaa gactcgacac tatgtagtgt gggtttgaac cggaatggc 60
 tgcccattgg agaagaatga aatcaatgag gagttatgat g 101

<210> 30002
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30002

acgggtcatt ntgaccagag ctccaaagat ccataatcag cagaaaattc tgaaaggaga 60
 aattacaaaa attgaagata aaagctggga aatcaagag taagatattt ttaaaggata 120
 aatcagctca agaagaacat aattacttga attaattaga aatgctattt atttttaatt 180
 tcttgtgact atctccttaa ttaaattctat ctacaattct aaaaataggg ggtagacat 240
 tcgttgtaac ggtgtaaaag tccctatcaa ttcttagaat tatatttttag aattgcacct 300
 actacatgtc tccattattc cattagacac tctagatttc attgtattat ttttataagt 360

gcaattcctt ccacctagga ggagaaatga tgaacctttt ttcgctgtaa ttctatcaat 420
tcaatacttc atcttaagtt ctttattt 448

<210> 30003
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30003

agctngnatc gttganaang cctcttgga attctcagca gagaaatgga tttgtcaga 60
ttgagacgaa acagttatgg ggaaatcagg tagctgcacc ttgaagtgtt ctccctcgat 120
ccttgacaca aaggacatta ctgacccaac ccaggaaatg gggaatactc atccctgtgt 180
ctggacttag tcgtagacta ctaataaata gctttcagcg gaaagtttct tttgatgaat 240
aattggaacg ttataattct ctgaaatctg ttatattgga ccagagtgga caaatggga 300
ttgtatgaca gtcacttctt gagacaacaa cctncanaga gaaagttggt tctggatata 360
ctataaagtc acttctctct tcacctacac ttgaacatat gaaaatatcc t 411

<210> 30004
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30004

tcaccttgaa gctaattgaa ataagctaan aaaagtcata actttaaaat aagctcttac 60
aaacacctca tatattcaaa acgagaagaa ctgtggaatt aaacatcatc cactctatgt 120
cagactggta attccgtaat tgctgcaaat actaagttat tctctagca tccattgtcg 180
atttcaagat tttctatca tagtgatcac attatctgat tgtagttatc attggtacac 240
tntaacctca taacaaagtc aatcaataag agtcgatttc aatttgcaga tcagaaaagc 300
taccctcaa attaggttat tgacttaagc agctgaatgc ataataaaa ggaatttgta 360
gaaactaaag caaatatat agatggataa tagaaaaagg aaaaggctgc acatctcaat 420
tccttaccga ttcaccactg agattcatgt aag 453

<210> 30005

<211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30005

gagcttggct ggagntgagg tacgtgtctc tttgaaattg aagcgtctgc aattgccata 60
 tctgcgatga cataatggcc atccaaactg ccgcaaaact atatatcaga tgttgaatca 120
 tgcataagat atttcagcat gtctactata tatactatta tgagcattac aagagcaact 180
 gaatgcatca cgcgtgcata tatacgtgtt caataacgtg tacgcctaac tggcgaagat 240
 acatataggg cacttggcaa ctgaatcatg atgatacgag tacctcagac aaaacactcc 300
 tcaacaggaa tatgaattca cagtgtcaat aatgctgttg gtcacgcaga taactcctct 360
 tccctctccg ctctttcgtc cagcatatat attatcaaaa ggctaataatc attgat 416

<210> 30006
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30006

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 ctttgtgtaa ctttgatgga tgagagtctt gtgagacaaa cttcaaagtt caacttctct 120
 cctcttttcc ttccttcaat gtcgtgctct gccgtctctc tttcttttct tccattgaag 180
 caccttctcc aagcttctta tccaaggcat tctcttgggtg gcgaagctcc ttcttccatg 240
 gcttattccc tagtggatgg cgctctgct cacctcttct cctttatctt ccgctgcac 300
 tccatggtag aaaataacca ttgaaggacc tcaatgaagc tcaaagatcc agcctccata 360
 gaagctctac aagtaag 377

<210> 30007
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30007

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ctgacggagg agctggagtg gatgatgaag ggatgtcttt tgctctagcc ctttttcttg 120
atgacatctg taactaaaaa gaactcaaaa ttcocttagac caaattaacg atgggcgctt 180
agcgggatac aactcgctca gtgcgccttc agaaatataa catatcggct tagcgaaaca 240
gcatgtgctt tagcctaatac aacgctgcaa cagatatgctg ctaagctcag caggggttgcg 300
cttagcggca gcatgaaatt cagaaaattc actaagtatg ggggcttagc gagcaaggct 360
cgttttagccc aatggctgcc acaatgaaat gagcttagcc cagataggct cggcttagcg 420
catagctntc aacaaaaaat tggactaagt tacc 454

<210> 30008
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30008

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atcgaagctt gatgacgaga ggccagagag tgtttcttct ctctgccccg ctctctatga 120
tggcaacgaa gagtcacgat acaagacaaa gtaagataga gggttgtcaa agcttatcca 180
gttataacgt gccacgtag catacaaatt ggaaaacaca ggttttcaaa gacgggtttt 240
taaaacgct ctctggaagc atattttaag ccgggtgtaa agtaccgctc ttacaaaagc 300
tataattatg cacaaaaatg tcaccgctnt atatactaca tcggttgtcg tataaccgac 360
gtataaacag tgacgtagaa aatctctttt ctagta 396

<210> 30009
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30009

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ttccctaata gatgggtgtct catctcacct ttctctcttt atcttacgtt acaacttcat 120
ggctgaaaat caccattgaa ggacctcaact gaagctcaaa gattcagcct ccatagaatc 180
ttctcaagca agcttccatc aaaaagtact gaacacaact tgctatgttc aaaacagaat 240

attgataaga ccattgataa aaaaaactcc ttatgaacta tagagtggaa gaagacctaa 300
tatttcatac tttcatcgat ttggatgtga gtattttata ctgaacacta gatatcaact 360
tgcaaagttt ggttcanagg tggataaaat aatcttcctc gaatgctcta acacatctaa 420
agcatacaaa gtgtttaact caagaacttt 450

<210> 30010
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30010

ttacatgccc aactgtctta agagacattt gtattgatag atgtattgag tgtagcatct 60
tagtatatat catttcatat gcatcatgca tcatcatgta ggagtaagaa gaaagtttct 120
aaagttagaa aatttattca gtagttcgaa ctctgtgttt taattgatta cgcaagtgtt 180
tgaagcttgc atagaagtgt ctcatattgg tttaatcgat tacatgctta tagtaatcga 240
ttacacaatt cgctatgaga caatgattga ttttntcaga agtctttgct ttaattgatt 300
accacgtgat ataatagatt acttctctct taataagtgt ttcagaagcg atcaagaaca 360
ctgtaatcaa ttacat 376

<210> 30011
<211> 450
<212> DNA
<213> Glycine max

<400> 30011

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gtatcaataa ctggagcccg tctaacaaca acataaggta gtgactccac ctcaatggac 120
gaagtataac cacatttata ctccattagt tgcatacaag gctttaaccc caggtgccac 180
agtagattgg atactccctt atcgacaaga ccagtgtatc ccaacctggt gaagatggat 240
cttcatttga tgcttagtgg taccocaaga accactcggt cattgtctat gccagtagag 300
ctaaagtaaa agaaaattat cccctcaagt gatcccttta ccaagactcc aagatttact 360
tcacctaaa caaccatcaa aatggacctt tccgaggaga atcccactcc taaagtccaa 420

tggtccaagg aggtgcatat ttgtacacct

450

<210> 30012

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30012

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ctgagtcgaa ccgcaggcat gcttggcacn gaggtcaatg tcttatccgn ggangccatt 120
cttagaagct attaaatggg ttcaggcttg agaattaact ttggccagaa ccactttggg 180
gccattggcc catctgaaaa atgggtgggg gccgctgctg aatatcttaa attggccatg 240
cctcaattcc ccttttggta cctaggggtg cctataagca ttaatctgag aaaaatatgg 300
tgtgggagcc tatcattaaa acggctgagg ctaagttgaa caagtggaat caaggaacat 360
ctctatggct ggaagaatca cccttatcaa tgctgtttaa cagcacttcc cttgtttact 420
tgtctntac aggcctccctc agcagcatta atagataaat gctattcgag acacttttgg 480
gg 482

<210> 30013

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30013

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taatgtaata ggggtggtaaa acagggttgaa ttcatacaac caaccacat aatcctccaa 120
aaaatggcag agtatattag gtgattaaat tcatacatccc accttgata agttgtcaac 180
ttaaggagtt ggaggctaaa gaactaactt gctcagtgtt atcaagacta taccgatcat 240
gattcgggtca gggaactagg ttgatgggtc agtgggttgaa ctgaacgtgg gtcgctagcc 300
gaactgggtat atattaaata tttaaattct atagtaaata tatcatatat aaattacttt 360
ntttgtatct atatacataa attntgtttg tatcaagagc ggttggcaca attggttagcg 420
gcttaagtcc ctaaaccaag tggtccaag 449

<210> 30014
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 30014

catcatacca cctccaggtg ctggaactac ttcacatggt tcttgatggg gcctatgcca 60
 attaagagcc ttggatgaaa gaggtatgcc tatgtcttcc acaacagagt cacacttaga 120
 agacggactc ctacctctcc gtattaaatc atgaaagggg agaagccaac tgtcaagctc 180
 tttcacatct ttgagaagtc cctgttacac tttggcgaat caagatctaa tgaaaaagat 240
 ggatcccaac agtgaagctg gactattcct gggatactct acctacagca gagcatatag 300
 agtatacaat tccataacca tagcagcgat ggaatccatc aatgtgggtg ctgatgatct 360
 gtctcca 367

<210> 30015
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30015

tagcnagann gttcctgcct catttccagn gagcatcgcg atcaaacaaa gagcgcggtat 60
 atgacaatca ccgggtcaat aaacgaagag gacaacactg tttaccttaa agaccggata 120
 tctgacataa tgggtatgca caatttcac cccacattttg caagaatctt acaataaatt 180
 atttcatgga tcaaaccacg tagttatgtg ccgggtcaatc tccacatgat gcataattaa 240
 gctattttaga ttacggagaa gagctgataa aaattgatta ctgatcacct c 291

<210> 30016
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 30016

taatggcctc attagtctca gtcttaggtc caacagcttg aggtggaacc ttccaactga 60
 cctactttcc cttccttccc tgcgctttgt atatctccaa cacaacaact tctcaggtgt 120
 tattcctgat tctctgccac caccgcttat ctttcttgat ttgtcccata actcttttac 180

aggacaaatt ccagcctcaa tccaaaactt gacacatctg ataggattta acctccaaaa 240
 caactctctc acaggaccta ttcctgatgt taaccttctc agccttaagg atttggaattt 300
 gagcttcaac tacttgaatg gatctattcc ttcagggtctc cataagtttc ctgcctcctc 360
 atttagaggg aatttgatgt tatgtggagc acctttgaaa caatgttctt cagtttcccc 420
 taataccaca ttgtctccac caaca 445

<210> 30017
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30017

agcttcntag ttaaattggac ggaccttann agaatagctt taatagccct tgtgagcctt 60
 gtttccctta tcttgttttg aagctcacta caagccttaa gtgagaaacc atgatatcac 120
 catatcctta aggaatattg gagctgtgga attgttatgg gaataagagt ggaggggtttt 180
 tgtttcattg gacaacttgt tatgatggct atgtacatg atgtattttg tgccatactt 240
 gatgtacatt gtatatngga taaatgttgg acatgctgaa tgaaatgttg tgtctcaaag 300
 gctatagagt 310

<210> 30018
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30018

tgtagaatgg ctagacatga tacatgtcan ggtttggttt ggttcaagga taaaagggat 60
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
 ctggtcatgc atgcacctat gtggacgctc aagtgtcaaa cttttatggg catgtgatgc 180
 tagggctcaa gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ctgggaaaat ttcacagcgt 300
 tcacccttcg ggtgtacaca cacatttttt tcaaaactag ctatgatcag cgaatttttc 360
 ttcaaagaaa agatggaagt catctctttt caaaagcatg ttggcttgct agctatacta 420

cttattat

430

<210> 30019
<211> 424
<212> DNA
<213> Glycine max

<400> 30019

taagctgccg cctaagattg ttatatattgc gtggaggcta acttttagatc gactaccaac 60
tagagcaaac ttgcggtctc gacagatcga agttgaagat gcaacatgcc cattctgcag 120
agaggtggat gaaagcgcat gtcattctatt ctttcattgt cacaagataa ctccagtctg 180
gtgggaatcc ttgtactgtg tagatctttc cggtgccttg ccaaatacacc caaggcatca 240
ctttcttcaa tacatacaca gagtaacaga ggaaatgacg tctaccacat ggaaatgggtg 300
gtggttggca ctgacatgga ccatttggaa tcaaacatat aacattatct tctccaatgg 360
tacattcaat gccatcgaga tactagatga tgcagctttc ttactatgga tgtgggctaac 420
taac 424

<210> 30020
<211> 390
<212> DNA
<213> Glycine max

<400> 30020

atcttgaagc tatatagcgt ggaagagtca atcttctac ttttatattgt tgaccacaaa 60
gtggtaccta gagatatgtc gcgggggtca ggagaccttg gggacgtcag gtggtgtgct 120
attgccc aaa accaagcttg atcaatcctg acccaactcg ggcatagtca gtcagtgaga 180
acctgtgacg tacctaaaca ggcaagctcc tgacagtcaa ccaataaaaag aacaaagacc 240
acaaagcaag gaggcttgtg tgggtggctgg ccagctatgg atcttgagtg gtatctggaa 300
tttggcctct ggtaatcgat taccaagggg gtgtaatcga ttacaaggct taaaaatgaa 360
gacaggaagt taagatggcc tctggtaatc 390

<210> 30021
<211> 439
<212> DNA
<213> Glycine max

<400> 30021

tgtggttttc tcacagatag gacatgcatg atgccttttc aactgtatc cacttaaatt 60
tccatatgct ggaaaatcgt taatagtaca aaacaccatg gcgcgtaacc tgaacatctg 120
ttgcacattt gcatcccacg catctaccct ttcttcccac aattttttca aatcttcaat 180
taacggacta agatacacat caatatcatt ctggggttgc cttggaccog cgatcatcat 240
acacaggata atgtattttt gcaaaatata caaccagggg ggaggttgta aatcatcagt 300
aaaacaggcc acaaactgtg gttgttgctt aagctgccat aaggattcat tccatcagaa 360
gcaagagcaa gccttaagtt ccttggctcg tccccaaact ctggatacaa atgatcaatt 420
gtcttccact gtggagaat 439

<210> 30022

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30022

agcttcttat ttcttgctca tcttggttgg gatactntnt cttccatggc ttattcctta 60
atggatggtg cctcctctca cctcttttcc ttigtcttcc gctgcatctc catgggtggaa 120
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga atccctcttt 180
gtaaacaacc aaaatttctc aattgattat ttttcttgt ttggtgattg ttgcaattct 240
cttagtgtag tactagttag atgaaatagt gtgttaatct ctctctcca tttctctagt 300
ttttattttc gacttgaatc ctttacgaac cctattctac aagttgttga actatattcc 360
aaatttctac cttttgcaac tatggaacan taaaatatta aa 402

<210> 30023

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30023

tccttgagaa gatntataga gaagttagag cttactaaa cacaccctc taatagttaa 60
gtcacctcc ttgagatgag aagctagagc ttaactacac acaactccta taatagctaa 120

attcatccca tgccaaaata catgaaaata caaaaaaatt tctagtacaa ggactactca 180
 aaatgtcctg aaatacaagg ctaaaatcct atactattag aatgaccaa atacaaggct 240
 caaaagaaga aaaaatctat tctaataat tacaagaaga gtggaccaa cattgacca 300
 tgagctcaaa aatctatcct gaggttcatg agaaccag agccttctt agcagctcta 360
 acccaatcat cttggagtct tctgtccaat aaccttggga gaaaggattg catcaacttc 420
 tccctcgagc gttnttggat ctaattatgg tgtaagagt 459

<210> 30024
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30024

agctntaagt ctttcaacan attatttatt gttcatagtt ttattaataa aaaaaataaa 60
 tgccttatat tctggcaaaa aaggtagata tgttgacaaa acatatgtan gaatacaagt 120
 gggaaggga gtctcttttg tgtaagaatg aaaaagttag caccatatga gtgaggataa 180
 aaatcataaa ctngagtttt aaagggttaa gttaaagtgt gaccgtcaat tttcttatgt 240
 ggntgttcat agcttatagg taaaatctcc cctgtgattt atccccctca tngcataata 300
 attagtataa gagtagatga tntaacttgg tgatcgactc agacgagtaa gatagtaacg 360
 gaggatccta gtcctangga tcccttgtag canaagtctt tctggcgatg ggt 413

<210> 30025
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 30025

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 tgaacttggt gactaaatct tgaaatcatt ctttgggggt tttgtcgtca tcttagtcat 120
 catcaaaact tcttgaatca acttgattca tcacatgaa gcttgcttct acacttaacc 180
 cccaagacca aaaaccaact agcctgagag gctaggaaaa aagagccacc agtccctcta 240
 aaagagcccc catatccttt agttccatca aagaagaata aggagcacta cttcaagtgt 300

ttattggaga tattcaaggg gttggagata accatgccat ttggggaagc cttacagcag 360
atgctgctct acaccaaatt catgaaggac atcttcacca agaaggggaa gtacattgac 420
agtгааagca ttgtggtggg aggcaactgc aatgcagtga t 461

<210> 30026
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30026

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gatagagcaa gaaatgaata gccaatggtt gatacatgga cggagatgag aaagatcatg 120
aggaagcggg atgtgcccgc tagatactgc aaggacttga aattcactct ccgaaatcta 180
acaccatgca acaaggaggt tgaggagtat ttcaaggaaa tggatgtgct gatgattcaa 240
gcaaattattg actaagatga cgaggcaact atggctcgac ttattaatgg tttgactaat 300
gatatacgtg atacttgtga gctgcatgag tatgttgaca tggatgatct gcttcacaaa 360
gcaa 364

<210> 30027
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30027

actgtgctag agagnaaaac aaatgaccaa agtgaacata gttccatttc tagggcaaaa 60
ttgggtgttg agaagtcaaa ttttgattcg gtggaatttt acgtgtaaat ccagtttgag 120
caagtttaga ttgatgttat ggacttgtgt gaggagagag tttgottcaa atttacctca 180
ttctaaattt cacttctcaa gcctagaaaa tccattaaat tgagggggtt tggacaccta 240
gattttgtgt tgctgtggtt tgaagcttgt ctttggttta tacatgattg atacatgatt 300
tgagacttgt aggatttgat ttgggcaaga ttggatgagg ggaagtgtga ttgtcgaaat 360
ctgcactctg tgcagattat tgctgtgaaa ttgtgcagca taatcttgca tgagtgcata 420
caaatgcttg tgtgtgat 438

<210> 30028
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30028

ctcacaactt tccccaaaaa gaagtttaaa gatgtgggaa gccttcatcc accttgtggc 60
 atggtataaa agtgtgccat cttgctaata caccaccata nagatagagt ctacacctct 120
 ttgggttcta tgaagcccaa tgacaaagtc cataactaatg tctaccaag gtgcanatgg 180
 aatgggtaag ggtgtgtata gcccatgagg catcaccta gacttggctc gtaaacaagc 240
 cccactccta gtgcaatgct tatggacatc tttcttcata tggngccaat aaaacttctc 300
 tttgagtaag acaaggggtct tgtctatc 328

<210> 30029
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30029

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 aagatctatt ggaaaagtat attgaaaagc aaatcaaagc cttgctttta tagactcttc 120
 atgtctggcc aagaggacca tttagaagag ttataacttt tagaaaaact taaaaccaat 180
 ttgaaaaagt caaaaacat ttgaagagtt acatcttttg atttatttag aaacaatcac 240
 tggtaatcga ttaccaaata agtghtaatcg attacacaaa gcttttatgt gaaaggatga 300
 gactcttcac atttgaattt gaatttcaac gttcaaaggc actggtaatc gattacaaaa 360
 acattgtaat caattacagc tnttttgaaa tcaattggaa cgttgtaaat tcatttgaaa 420
 aaaatagtgt gtgcatgcta tntcattat 449

<210> 30030
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 30030

ggacacttga tactaagcta cacacacggt cactgcatgt ttttgcacag aatgaagaat 60
 atttaaccaa caactttgtg caagaaatcc ctacacacac acacacacat attaataata 120
 aattgaaacc aacttaatta aaacaattta aaacattctt tttaaaatac aagcctttca 180
 aaggggaaag gctccattac cttttaacat cataataaaa cttgtacaaa taaataataa 240
 attcacttcg gctcataaca aggcggtcta aaacttgata caatcaacat agaacctata 300
 ccctaattgc acatcctatc ctatcagagc attgtattcc cgtgtgctct agcatcaggt 360
 tcttcatagt catccaccta ttcatttgct cccactaaca ccacgttaga gatcatcaca 420
 tgatccgaac acagattata cactgt 446

<210> 30031
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30031

tttgcnnga acttttattc atgaaaaagg gtctttgtta cgtgtgggtg agagatgtta 60
 gaatgagtaa tattgataga agaggaggag atatgagata ctacctgctg actttacaac 120
 aaaggccaac atgggtaaag cttattggat atatggcggg aaacatatag cagacaacag 180
 cacgaataag gagttcagcc agaccatagc tatatagata aaaatctcaa aggaatatac 240
 caagtggat ctaccaacc catgcaaagg aaccacgtgt ccagtgatta gcctaacgaa 300
 ggtatcactc ttggataagc aacgagtgat c 331

<210> 30032
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30032

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 tttggggagt agtgggacca cagagaatgt ttaccaagga tgggatttac cctgngatga 120
 attggttttt cctgattggc ctacttgctc ctgttccagt gtggctgctt gctcgcanat 180
 tcccaaacca taagtggatt gagctcatca atatgccctt aatcattgct ggtggtggtg 240

gcatcccacc agccagatcc gtcaactaca taacttgccg atttgtggga atcttcttca 300
 atttctacgt ttacagcaag ttcaaggcat ggtgggctag acacacttac atcctctcag 360
 ctgcttttaga tgctgggtgtt gctttcatgg gtgtcattct ctattgtgcc cttcagaatt 420
 atgggtgtttt tgggtccaata tg 442

<210> 30033
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30033

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 cctttgctac tcataaaaat ataaagtatt ttcaaattga cgttaaaagt gctttcttaa 120
 atggctttat tgaagaggaa atatatgtca aacaacctct tgggtttgaa gatcatactc 180
 ttccagacca tgctttcaaa cttaaaaaag ctntgtatgg tctaaaacag gaaccacatn 240
 gctgggtgtga cagactgagt tcatttctct tagaaatggg tntattaaag tcaaagtggga 300
 tacaactctt tctaaatgag aaagtggcan agatttcatt atagttcaaa tntatgttga 360
 tgatagtatn tttgaagcta ctaatgaatc tctt 394

<210> 30034
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 30034

tgaatgaata taagacacat cttcttcaat cttgggtgatt cttgactcca tctaattggaa 60
 gtgcatgtcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120
 atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180
 accaatatgt cgagcaccct ttttcaacca agagccatca tgctcttttt gataaccaaa 240
 ggatgcaatg actgaagcgc ctataaggaa ggatctcttg attggaacat aggggttcaga 300
 atcaagaggg atgttaaagt gttgaaggaa aagagtgact agatgaggat atggcaaagg 360
 agcattcaat cgcaatgcct tatgcctgcg atatctaaca agaagtgcc aatcaatttg 420
 tagaccttta tgataggccc acataacaat g 451

<210> 30035
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30035

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 tttttctcgt atccacattt actcgagatt atttcttatt ttcataatatt ctaataatatt 120
 caaagaatgt gccactcata aagtaacatt ccaaattaga gataggcatt catctacttt 180
 ctatgggaac attagtaaaa cacatganat tatntactat gtgttttaa atgtgccgttt 240
 ggcatgacat gaacaagggt cttcatatca cgtaaaaagt agataaataa aagtaaacia 300
 ataagtatgg catatcccat tagtctaaaa gcaagggtta tatattcaaa ggtttatatc 360
 ccattatttc atatgttcac at 382

<210> 30036
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30036

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 gaagaacggt tgaaaccttt gcgaaattct tcacagaaaa cgttacggaa acgtttcggg 120
 agcgcctcgg cttagatttt cttcacggaa acgatttttc caagcaaatt cgaaagagag 180
 agaagtgcc aaggggctga acattttctt cttcacttcc tcccctatatt atagcaaaat 240
 aggggaggtg gttgccgccc agctcgcccc ggcgagccag gttgcttcct ccagaagcaa 300
 cagccttctg gaggaatatt ctagagggcc caagtgggccc tgggtgctat ttccaccccc 360
 atttttacta agtacacccc cctctgctnt tttggtgatt cttnttccgt anagtcacgg 420
 aaacttacga attccgtaac gatact 446

<210> 30037
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30037

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aaaagttggg ccttggtgan cctgagngct tttcggagat acanggcgaa gttgagcacg   60
ggaccogtgg atactacaga gccgaccttc ttgcatgcga gctttgacat tggctaggan  120
gcagatgagg catacaacga aactctgcgt atgagagtta aacaagagtg aatcataagt  180
acgcatgcc aactgagtaat gatgaaaatg agaatcgaga tgctgaagat gatgttggtat  240
tggaagtatc aactgtggac ttggaacgta cagtgcgatg aatggctctt actctatgga  300
gttagtatat gtcaaggact ggacaaaggc taattttcat gaccgaaata accctgtgaa  360
acatgatgtt ctatctatat actgtttaat acgaacacag tgtgtgctat agatgtgata  420
tcgatgcaaa gatgtgctag cttctattaa tgtgacaact tcttatagct acccatgcta  480
tgataatatc atatacggat aataacgtg                                     509
  
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<210> 30038
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 30038

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tatgaggtcg gttatatatt ccttctttca ccctatttga ggtctctttt tcctttcata   60
agagaaaaat tgtaaatttt tagtctctca tttatatata taacacaatt tcatacaaga  120
gaaattaaag agacattgat ttatttctga aggattggaa gctaacattg tcttgtacta  180
aaactatatt tgacaccttt tattgcatga tcgctttctc taatatagaa tctaagttag  240
tgtattgggt tagtgcaggt totgagtgat ccccagaaga gagcaatcta tgatgaatac  300
ggagaagaag ggcttaaagg gcaagtgcc cctccagatg ccggtggcca tacattcttc  360
caaactggag atgtgccaac aacgttcagg ttcaatccaa gaaacgcaga tgacatcttt  420
gctgagtt                                     428
  
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<210> 30039
 <211> 133
 <212> DNA
 <213> Glycine max

<400> 30039

ttcgagcgtc tccatatatt atgcgcctta atcggaagat cgagtgaaat tgtttgacca 60
 tttgaatgct ccacagcctt ctatgggtcaa attcgagcat cttgaatttt atgcacctta 120
 atcggacctc cca 133

<210> 30040
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30040

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 ctaagcgcaa cactcatggg cttagtgtcaa ggaagactct cgacgaagat gagttgcaca 120
 ggttcgcaaa gcgcactgtt tcatctcact aagcacaccg cttcagtcca tacgctaagc 180
 gagaaaggca tgtgctaagc caaaattcac taatgtgcgc ttagcgggtcc attattgtgc 240
 taagcgcgatg agcactatca aggctaccta tataagccat aaatcatgat ttgtgaacgg 300
 agtttgggct gtgattcaga gcttttagatg gttagagatg ttatagagag aaagtctcag 360
 ttctagagag ttttgagaga ttttggttggg gatgatct 398

<210> 30041
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30041

agcttgtttg ttacaatgac attgactggg ctagagatga agatgatcag aaaagtacta 60
 gtggatatat gtttttcatg ggaaatacaa ccttcacttg gatgtcaaaa aagtagtcga 120
 tatatagtca ttcttttgac ttgtaagcca aaatacctag cagttgcttc atgcatttgt 180
 catgcaatat ggctcaagaa tttgttaaaa gagttgggca tgtcacaaga agagttacca 240
 agatctttgt cgataattaa taagtcagtc attgctctag caaagaatcc aatgttccat 300
 gatcgaagca nacatattga taccggttac cactacataa aggagagcac aacaagaaag 360
 gatgtacatg cangatatgt gaagtctcaa gaccaagtag ttgacatc 408

<210> 30042

<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30042

gggacgaggg caacccaaca ctatggctac attgcacacg agggaacgcc ttaacgtccc 60
cgccaccact aggggaagaa tcatgggtgac cagaacaagt tcccaaactg gagaagtagt 120
ggaaggttgc accctcccgc ggaggtgaga agtgcctcca ccagcacgac acaagaccgt 180
cacactcttt gaggaagcgg acttgctatc gaaagcccca tggcgagtct cctccganga 240
ggaaccgccg atggagacga cccttagagt cactatc 277

<210> 30043
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30043

agccccggttt atgcttcac cccnaatttg nnanngacgg ngcgngnnnn aagctatatt 60
acaannanaa ntaanatgnn tttccgaagn gggacataat tgggcgaagg ttgcctgttt 120
ttttctctct gccccggcgc cacatgccac atgcagggat ggtgggatca gtatttgaga 180
gattactatt aggagctgaa tttgagagac atgtgccagg aaaaagaggg agaaggataa 240
agataaacgg atagaaacct tataatgaat aaagtctaag aaatgttaca agtttgaatg 300
tgaccgtcta atgggtatga taaaaatctc aaaagttcga atgtgattgt ctaatggcga 360
tgatattcat attttctact aaaaaatctc atanaattta tcagaattta tttaaaaaaa 420
cattaaaatt gaaaactttt gatatcaaga gacttttata aatataaaaa tctaattaat 480

<210> 30044
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30044

agcttctcgt ttatgagaac aaatntcaat atcattcatc ataattggct cccaccaatt 60
tttcagattc aagtttacca cagaatgaca atgaagacat actgttaatt aataacacat 120

ccaaagcggc gacatattat cttgcaacca cttaagctta aagtagacct actattgttc 180
tcctttggca gaacaacacc canatattgt tcatacattt cctcccaatc ataataagtt 240
gcaccagtaa ttggcctatc gtccaccctt aaaccaagct gtagtggttac atcctctagt 300
gtaattatac attatccaac aagaaaatga taagtgtgcg tctctgggtca acaagtgcag 360
gcactagatg atgatcaatc ttgaagtgtc ataattttgt cacat 405

<210> 30045
<211> 306
<212> DNA
<213> Glycine max

<400> 30045

agataaatag taaaaaagtg ttttaaaaca ttgagtagca caagaatfff tcacaaaatc 60
ttttaccaaa gagttctact ctctggtaat cgattaccag aaggtagtaa tcgattacca 120
atagccaaca ttgtttttta aactgattta caaagttgta atcgattacc atgagcatgt 180
aatcgattac caatatttta aagcgttaga tatcaaagt cagaagtcac agatagtgat 240
agaacatttt caaaacagtt taaacttggt taagcgatta cacaatactt gtaatcgaat 300
accagt 306

<210> 30046
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30046

agctttcata ttgaaaaaa aaataactaac ttttggctct tggaatffff cttctggctt 60
tctaagatat gaactggtaa gttgttctaa ataataaagg atatggtctc agattatttt 120
gcgcagttga aattcttgca tactatccag ttgcaatctt gttagcaagt agcaactaca 180
atgacactta tanacgatgg aaaaatctat ntgactactg ntgtgcatcc ccttctaaag 240
aattgtctgt gcctgtcttt ttgtcctgct tgtaagctgg acanaatgag gaatattctg 300
aattcattat ggatctactt cgtaagtcct taactgactn nttacttatt tctttgctgc 360
agggagatca attgcaagt acagtaaata aattaacatc aac 403

<210> 30047
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 30047

aggaacggcg gataagaata gagagagaga ttatgtttct gggaagtgc tttattctag 60
 tagccgcgtg acatgagcct tcgcattcgc ccagaatata ggaacaaact tggaatgggc 120
 accaggcgca accacgtaag cccaattctg ttcaaacaat ctagttccgg gtgttactag 180
 gagcaccag aatTTTTTtC tggggcaccC aaaaacatag tggaagaata aaacaatgag 240
 taaatagacg ttataaataa atagtattgc tatatataaa actaatcccg tgtttaagaa 300
 cgcctcaaga atttcgagcg aacctagcca gcaaaagttg atggaatttg gactcaaaag 360
 aatggcggtg caattctaga ctatagttgc ttttggcaaa actaacgcta aacaatctat 420
 tggatga 426

<210> 30048
 <211> 55
 <212> DNA
 <213> Glycine max

<400> 30048

agctTTTTtC atcttatcat tatcaaacag atggtcagac tgaacgaacc attca 55

<210> 30049
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30049

tatcatgatc tggaaaagta aaacaatgtc agttatatag tttagataat catgattata 60
 tcagtaattt cattgcctcc aatatcatat aaagcattta gtataatata taacaatata 120
 tggtaacata tgagagttaa aagcttacaC acatacgctt acaagggtcat ttcatatatc 180
 acaaaattga agataacatt caatgggttca tcatcaaagC ttgcatcata ttaatatata 240
 cattttgaat aggcaacact tgcctctcag tcaaaatgca ttttcagcaa ttggatgtta 300
 tctctaaaaa agttaagatt gtatcagact tagtagcaca ttcagcagca tgacaaaaga 360

cacaggataa ataatgcacc atangatcaa taccaaactg gaagagataa cttctcagtt 420
 ttaaagggtga acactattat aat 443

<210> 30050
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 30050

agtttagtaat gagggtgaact tgatttatgg tttagctcaa tttgacttaa aagaatgact 60
 tagttcaaag cttgttataa gtttaatatc aactttttatt ttttatttga attcagtttg 120
 atttaaactt gtgagtaatt caatttagct cttttgttgg attggtttaa aactataatt 180
 attttaattc ttttatttat ttatttattt tgtgaaataa aattaattaa caaactaatt 240
 atgtcaattt actattttat atcaatttag tcatattaac acatgtaaaa ttagaggatg 300
 aaattcaggg agaaatgaca ctggctattg gcgtgaagtg ggcgaaacag ccgaaaacct 360
 gaactgggac atttttgcac cacaactagt acttaagtag tctttctg 408

<210> 30051
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30051

agtctttatt tttatttctt gacnatcttt aatgagctgg tgtaacagaa aatgataaaa 60
 taatcatgta aggtccgttt tatacacaca tacatctagc gaattctaatt ttacatgtag 120
 cggtttctcg acaaaatgca gatatgcttc tgataattgt tttgggggtgc attgacaccc 180
 atcaaaatgg gacaacaatt gattgggtctg tcaaccatgc gcaatcaatt tattatcaga 240
 taggttgcaa cgcattgatt ttgaatcctt gatcgttacc acacacgtgc cctatatgag 300
 caactatcgt agagaccaag aactctttcc ttgaaataag ttccctcttt cctttctgta 360
 gtgctttgct tgatcttcca ctacgggtga taaaaatctg actc 404

<210> 30052
 <211> 419
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30052

gaccgctntc agttttatac ctagtaaatc catagatang tttatcaaac cagtatacaa 60
atggggacag aaaatgaaaa aaggtaagtg agctcaaact caaagaatgc ataatatatc 120
atttcaaaat cagaaccact gaaccaccaa acattataaa agaatttgcc agatcaaaca 180
tctagaatgg gtagacctta caagaacaat tagacgagaa gaaagtttca tgcagaatta 240
atgtacaaaa tgcaaaaaca aaagacaagc cttcaaaacc tatggtcaga gacactacgc 300
ttattggatg ttattcatga acttcagtat ttgttattag aatcatatag tttcaggagt 360
cttattaata tgctatgtta tcattgttat gtagcagaat tgtacaagac ctatcatat 419

<210> 30053

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30053

ttactcgga ttggtaacta catttttttaa gctcgaagtt ttactgaatt ttgtagacat 60
ttggaccaca attataaaaa aagaaccaag cgaattggat taaagaaaaa aactaaaaaa 120
atcacacaag ttggatgaaa aatcagtggtc caggaaaata aaagtgaaaa ggaagtgtgc 180
ttgttggttt aactcaaaac tttttctata attgggtgcct actttatacc actcctagtt 240
ctgaaacttc aattgaaaat aattatgaaa acaagtgcc aaaaatagagg tttcttgagt 300
ctttttttcg tttctcttta ttaagntttc tactctactc tatagccttt ctagggtttgt 360
ctttgag 367

<210> 30054

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30054

ctaattatat cctataaant tgctatcact tactacttac atacattcga agtacaccat 60
acaaatTTTT gttgtttcac tcctatTTat ttatatgcat attggaaagc taattacatc 120

ctgcacatat ttgcattcaa aaagggcatt ccacactatc atacattcat ttaagaaaac 180
aattactcat actttgctag gaatttcatg ctccttatat ttacctatgt atacacacta 240
ttgcaaggtg ttttccacgc tacctctatg taaagtatca aacatggggc agcccaaatt 300
cgagcaaaaa ctctcacaag caaatcctaa ttttcatggt tttctaattc taaaaccaa 360
ttntggattc ctagccataa gcatgtttcc ttgcattgaa gctacaagtt tgggttccta 420
agcttgg 427

<210> 30055
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30055

gtcatgcat ttatatacat gaaattgatt agactattat tttattcgac cggnaaaata 60
tcatggacat tgaaaacatg gccacaaaag tcacctccat gaaaagttaa aagaatttaa 120
ctaattccta taactaatat attttaagag taaattaaat cataaatctg caaattaaaa 180
taaaaaactc aaaaaaagaa aacaactatt aaaaaaatac aatacataaa tatagaatta 240
aaaaaataaa ttcataaaac aaaaaaatgg cacattgaga aattgggttg cgacatattg 300
tgtagcaaaa aaaattaaag ctggacagtg agaaatcgga ttaggggcac cggattttca 360
ttggcaataa tgatttgtat cacttttgat agataatttg gaacttgtat tatttgt 417

<210> 30056
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30056

tgtatttctt gaggaataac tgtaatactt aattgggtgc acctacatgt aacaacatca 60
ctttccccgt caacaaacat gatcaaatca acaactatta tttctacaca ttaggggtgaa 120
aaagcactca atatttttgc tataacataa caaaagtgtt acaacaagag taaagtgatt 180
ccaacttcaa cttttttttt tcaattccct catttcattt ggggtgcctaa ggtatctagc 240
ctagagtcag aaactaattt ctcaagacac aaagatcgat tcaagggagc tgaactcacc 300

caacatanaa acataagaga ctcaatcact tcctaatttc catccnctaa taaaacatga 360
 tttgtggaac aagtgaagta aaataactaa nagaattgaa aagcacctgc atgttgact 419

<210> 30057
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 30057

tgaacagatt tgataggagc tagggagttt accctctgat tcatataaaa aaaaaagaca 60
 tcacatcatg cttaccggtt taataggcat ggaatagaca agtctctaag ttaacacggg 120
 aagtgcgagg catgaagcgc caatcgcgag ggacaagtaa cccataacca tgaactgaac 180
 atgaagaagc ctctaagtt aaaaataaag cgcaagacgg tgggataaat tgggattagt 240
 acagcgttgt aggcctaaat aaaacgaaaa gcggaa 276

<210> 30058
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30058

ctgctactta tatatcgaga cgatcaaaat tgaacaacgg aagctctcgt gaaattaaaa 60
 tggtcataag ttttaactcg gatgtccgat tcaggagctt cacatatcga gatgcacgaa 120
 attgaacaat ggaagctcta gagaaattct aatggtcata aattttcaca cggaggctct 180
 attcaggcgc ttaatatatc cagacgctcg aaattgaaca atggaagctc tcgagatatt 240
 caaatggtca taacttttca ctcggatgct cgattcaggt gtatcacata tccagacgct 300
 cggaatngat tagcggaagc tctagagaaa ttcacatggt cataactttt cacacggatg 360
 tcctattcaa gcgcttaata tatcgagacg ctcgaaattt gacaac 406

<210> 30059
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30059

acaagtttct tcacaaataa ctatcatggt gtctgtttac tagcaagact acccatcata 60
tctcccaaaa ccccatacc acgaaattta agagagaaag aagtccaccc aaacctgaat 120
tttcgaagtc ccactcgtag ccacgcactt cactgacccg aaaatgccct cctttcgaga 180
tttggggcag aaatgatgga caaagggtga agctttgctt ggagcttcaa tggagaatga 240
agaagaagaa aatggcaacg tgaggagag agagagctgt ctganaaagt gtgggtgctga 300
gtgaagagag agaacagctc tctgggttta aataaaaggg tttctctttt ctattatttt 360
attaagcatt gcacatgtct catttgagt 389

<210> 30060
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30060

tagctttgtt tactttattn ttggtagag gctttacata ttatatacta agatatctgg 60
ttgaatcttc catttcttat ctatggtctt gaacacttac gaagtctacc agtgggtatgc 120
taatcatgtg tatgcaattg actagatgaa actagaagga atttggtaga ttggcctaaa 180
cgatttaaca ttatttggtg cattgctcga ggacttcttt atctncatga agattctaga 240
atgaggattg tacatagaga tctgaaaacc tagcacattt tactagatga aaatttcaat 300
ccanaaatat cagactttgg cttagcacga gcattcttgg gag 343

<210> 30061
<211> 419
<212> DNA
<213> Glycine max

<400> 30061

aaagtctcac gattgtcacg tgetcatgca ttatttggtt gtcgtggcta tacgagacat 60
cttgcgaaac aaagtcaggt tagcgataac tgcgttggtc tttttcttcc atgctatatg 120
tagcaaagtc cttgatctag tcaagtttga tgagttggaa aatgaggccg caattatact 180
gtgccagttg gagatgtatt tcccccccg ctttctttga catcatgatt cacttgatta 240
tgcactctgg cagagaaatc aaatgttggt gtctgtttta tctacggtgg atgtaccag 300

ttgagcgata catgaagatc ttacaagggt atacaaagaa tctatatcgt ccagaagcat 360
ctattgttga gaggtacatt gcagaagaag ccacttgaat tttgtcataa tacttacag 419

<210> 30062
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30062

agcttatatt cctattgtcc tatagaggca tttcattcct tctggagagt ccactagctc 60
tatgatagtt gtcacacctc tgaacatatt cataagcacc cttgtgcaag gtaagccaat 120
aaaaactaga ttgaaggacc ttggcagtag tcctctctcc atcgtaattg ccttcacaat 180
gtgaactatg gcaatgccac aatatgcttc ttgcctcccc ctaagttaca catcttctca 240
agagattatc tgctccaatt ttataaagat tgggatcccc ccacacaaaa tatttagtgt 300
ccttgacaaa cttctttttt tggaccaagt gagatcatca ngaaatgcac caattgcttt 360
gacactagtc atctcagcag accatggcct tctacaatg 399

<210> 30063
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30063

tggctcttcgc cagtgaagg atcaatgtgg ttcttattta tgcaaatang atcatcctac 60
tatgacgact gagaaaactg gggcaaataa agaggggtgag gatgaggcac aaacccatgc 120
tgtgactacc attcctgtac ggccaagttt cccaccaacc caacaatatc ttactcagc 180
caataacaaa ctttctcctt acccaccacc cagttatcca caaaggatcat ccctaaatat 240
accacaaagt atgtctaccg cacttccaat gacgaacacc acctttatca caaaccagaa 300
tacaccaacc aagaagcgaa ctttgcagcg agaaagcctg gaggaatcac cccaattcca 360
gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc cataacccta 420
tccaacgtta tca 433

<210> 30064

<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30064

atggttaata atctgcataa aggtgtgaat gtgtgtggta tgtttggttt agttcaattc 60
ttggtgcatg gatngagatc ccacattgac tatagatatg gctaaagtag aaattataaa 120
ggctggggaa atcctcacct catgaagcta gctttggagt ttgagtcaag cttatctcan 180
attcaagatg gtatcagagc ctatcataaa ttcgatattg ggccaccctc aactgtccaa 240
aaatctacat g 251

<210> 30065
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30065

aacctcgtgt aggcgcttca cgcncgccat gcgctttttt cgcgtncttt gcgcgcgcga 60
gctcgagcgc ttcctccatc ggatctggcg cggccgggtg cagatctggt ttaactgtca 120
ccggattcac caccgcataa cggcgccggg aagttgcgaa atgcaaagt aaatgcgaat 180
gcgggattta aaaggagtga gagggaggtt cagtggagt tagtgagaga gagagattgt 240
gaatttagtt agcggaggcg tcaaaatgag gggagaggtt gcggtacgag agagaaagag 300
aatgatgacg cggaatgaa atgaaatgga aaatgatttg aaaactatgt tttatgctat 360
ggggctgccg tgcttgaaaa ttaaccacta ttagtattga gtgatagttt gttgggttgg 420
gttgctttta a 431

<210> 30066
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30066

cgggcgggtt cctatgccat gaatatctag gcaattcagc tcgtaccggg ggatctctaa 60
agtcaacctg anggcttgca gcttttttac attattgtga gagtgggtga cagaaatcaa 120

aagcttattt tggaggcccc ttttttaaaa aataaaacat ttaaaattga aaatgatggg 180
ataaaataaa aatggttttg cactggaagt aaacgtggag aatgggtatt ggattactga 240
tttgccctt taaattttaa aaatctgaat cagcttaact caagaaaaat ggtggtgggt 300
ttgcctcaga tcaagccttc tagtgaagat gtgatggttg ttacagtgtg agcatcaaga 360
gcactttcaa acaaagacc aatcaggcaa aagagaactt gaatgattac tctgtgtgtg 420
tgccctatgc gactgatctc tgggtgaaca gatctcatat ctttatgatg attgacan 478

<210> 30067
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30067

ctacaagaga agatacaaat tctaagaaat tctttaattg tgtgatgaga atatgttata 60
ccatgaactt attttctaaa atttttgcaa ttggtataat tgaagccttg cttgattcct 120
gtttttcttt ttcttttctc atttatgttt tgcgaaggca tttttttctc atttattatt 180
ttctgtcatt gcattgagat cgtaggcata gattcaatct tttcctctaa gtacacacat 240
tctaaaacag atttttaatc aactgatgag aacagggtat accatgcac attattgtta 300
gaattcatgg ttcagttcaa gatagaagag agaattgaga aaaaaaaaat tatatgtata 360
ttaatattct taaatgagta cccaacaagt atataccana gattccctat gagatgatga 420
ttgaaaagaa gtctag 436

<210> 30068
<211> 117
<212> DNA
<213> Glycine max

<400> 30068

tgattctgat ataataatga aaacttgaat agtgatgatg attcttgtac caccacagct 60
tttactagga aatcctccaa agtcatttcc tcaagtgttt gcttgctttt gagcagt 117

<210> 30069
<211> 444
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30069

aatagattta gttagtcact ctacttgcaa aagagagatt ttctagcttt ctaggaactt 60
agacgttgat gaactttggt taagataaat tgaaaagtat tcctagaagc tatcttatga 120
aagatagaca ctccaaggta ctttccaaga tccttagtcc aagcaatacc catttctcca 180
cttagttgat ccttgacttg agtctccaca tttttggaaa agaacattca agatttctcc 240
aagctaattt tctgcttaga actcttgcaa aataaattca aaatattctt gatagaatgg 300
acctgctcca ctaaagcctt cataaataaa ataaggctgt atgcaaaggc taagtgagat 360
ataagtggtac catgtctaaa aagacgaata gggcaccaca ctctntggtc cacaacaaca 420
gagatcaatt gaaacatatg ttca 444

<210> 30070

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30070

agctttgatt tacacagagg gtttcagga caaagcttcg atttacatat tgaatttcat 60
ccaatttttt gacaagtcac tggtacttcc atgaatattg atattgtatc atgcttaatt 120
atatgcattt gattattctg atcatttgtt gttgtgtgat tatttcttcc atgcaggtag 180
atgattccta tttgttgtga gagtgaaatg atgggcagca tcaccaactg aggtgagttt 240
atatttcctt ttttttgtct ttatctttgt tagttcggtt tatagttttt attttatatg 300
tttgagttct acatgtgtaa aaaatagaaa tagacaggtc tgggtgattgc ttangaattc 360
cttggtgttt catggcattc ctntgaacc tcanaagggtg cttatga 407

<210> 30071

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30071

gctgcaccat tgacagatnt acttagtaaa gaagcattct tgttgtctcc agaggcagag 60

acaacatttg ttcaattgca gaaagtcacg acttcagctc cagtgttagc tcttcctaata 120
 ttccagctgc ccttcattct ggaaactaat gcttccgaca ctggtattgg agtagtatta 180
 catcagaatg gccatccaat agcatttttt tccaagaaac ttgcacctag agtgcaaaag 240
 aaatctgact aatttagaga gatgttagca attgttgaag ctatagctaa gttcagacac 300
 tacttgctgg gacacaaatt tattatcaaa actgatcaca attagtcaga tgatgatgtt 360
 gatggatgga acaaccgcta cagacacctg aacaacaaca gtggttacac aggtttttgg 420
 gatatg 426

<210> 30072
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30072

agtctttttg aaaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
 ctaagctcat ctnccttgaga tgagaagctg gaacttagct acacaccccc tataatagct 120
 aagctcacc ccatgacaaa atacatgaaa atacaaagaa nagtccctac tacaaagact 180
 actcaaaatg cctcgaaata caaggctaaa accctatact actggaatgg ccaaaatata 240
 aggcctaaac gaaggaaaaa tacctattct aatatttaca aagataagcg ggctcact 300
 tagcccagg gctcanaatc taccctaagg ctcatgagaa ccctanggcc ttccttgga 360
 tctctggccc aatctacctg ga 382

<210> 30073
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30073

gggctganaa tatataacaa caccaaggat ctacttttat ctctcctctn tcgttttttag 60
 ttgtaggctt ctcttcttct tttagacact cttagccaga agtagcaaga aaaaaatatt 120
 tgttttgtaa tcaaagtttt gattagtggg tgtggaagta atgctttcca agattatttt 180
 gatgatgcc aaaaactcaag tcaagaatca agagtcaagc aagtttcaag aatcaaagag 240

tcgttcaatc aaagcaagtt tcaagaatca tagagtcggt caatcaagat tcaagattca 300
agattgaagt aaagaatcaa gagaagactc aattaagata agtattaaaa gagtttttca 360
aatattgaa tagcacaatt ttgttcaaga gaatctttca aagaacaatc ttttaciaag 420
agttgtactc tctgataatc gattac 446

<210> 30074
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30074

agcttgtatc attingactta tatgctctag cttgagcgag tgttggaatt agtagttaa 60
tgcctttcag atacaggtac actattcttg tacctagaat ataccgtgca tgtactaagg 120
aactaaaatc atcattaatc tccttataaa cacaaaacag tgtatataaa tactagatca 180
gctgaataac tcattcaagc tattagaaaa gtcattctcg taatccctaa naattcctca 240
tgtaataaca ttcaaccttc caacaaatgc atatggagga tttcacattc tcaattcatt 300
gatcttcatt caagtgtctac taaatctcaa aatatantaa atntatgtct ttgggtgcatc 360
tatcattgct taatcanggg gttatgc 387

<210> 30075
<211> 447
<212> DNA
<213> Glycine max

<400> 30075

caagatgagc ggtcatcctt gcagcccata attcgttctt ctcaccatca aaaattgggtg 60
gtgaacctgt tgtgtatgat gtttctccct ccattgattt ctctcaactc acagatccct 120
taaagataag agctctgata ccaatttggt gtttttggtt aataacggta agcagaaata 180
ttaaagaatg aaagggagcg taaagaaaga aattgagact acaaaggctt gttttattct 240
gatatgaagc aacgtattta aaaacatgaa aggatagtaa cggctaacaa aaagataaca 300
ccactaacag atcatgccta gaaaatagga tcaaaactaa tttatcctat cagtcaacat 360
gactgttatt tttccttaaa aatagcacia gaatcttatc tactatagtt tgtagacag 420

tttcaacagt cacatcttaa taaatta

447

<210> 30076
<211> 326
<212> DNA
<213> Glycine max

<400> 30076

gtggtaatca gagcacaaga gcttcaagta ggtgcttctt aaaccctcat taattttttt 60
ttccttacct tctcttccat tgttgtttct tcatttttct ccacgtatct cctcacatgt 120
cttgttctaa atgttggttaa catgaatctt tatagtttcc accgattaaa cttgctatag 180
aaactaaatt tgattttcta tggttcatat ctcttggtct tggctcttgaa ccatgaattg 240
tggtgagttt atgttccttt gagctttgtc ttgttatttt tgggtggctga aacctaaacc 300
ataaaattct tacaaaaata ttaaag 326

<210> 30077
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30077

ttagaggana ctcaatcacc taaatcatct gcagcatttc tgtgttaaga gaatccgaag 60
taggtgcatc agaagctcat atcatggctg aagatcaacc acgaacgggtt actcttgaag 120
attattctag ctcgatcgtg ccacaattct tcacaagcat tgcgcggccg gaagttcagg 180
ctcacgtcat cacatctcct caatccttga ttcagctgat tcaaggagat ttatttcatg 240
gattgccaaa tgaagaccct tacacacact tggctactta tattgaaatc tgcaacacag 300
taaagattgt cggtgtgcca gaagatgcag tgaagctcag tttgttctca ttttctttgg 360
ctggagaagc taagaggtgg ctacactcat ttaaggana caatttgaag acttgngatg 420
aggttgtaga gaag 434

<210> 30078
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30078

tagctgctaa actaaaatca attgagggaa cctccccag tattcccatt gaaaaacctt 60
tatatcaacc tttcaaagt agtgaaaagg ctaaacgaaa aaattaggga cctataaaaa 120
actaattctt aattgaaggg cgacgtgata accatagtga aatacttaac aagattgata 180
gtttacttaa aggcatttca gatactcccc aagcctcgga aaatactttc aaaatggtaa 240
caagaagtac cctccaatta attaatgggt ataataga tagtgaccac agctcagaat 300
acacacactg agataggatc agtgtcagaa aagaatatan atccantaaa ttccaacacc 360
tgagaacacc cctccaaata tattatcaac n 391

<210> 30079

<211> 436

<212> DNA

<213> Glycine max

<400> 30079

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cgtcccctct cctcttctcc ttgacctcc gctgcatctc catggtgaaa aatcaccatt 120
gaaggacctc attggagctc aaagatccag cctccataga atcttcacaa gcaagtttcc 180
atcaagtggg aatcagagca caagagctac aagtaggtgc tccttataacc tccattaatt 240
tttttgcttt accttctctt ccattgttgt ttctccatgt atctctcac atgtcttggtg 300
ataaatgttt ttaacatgat tcttttagagt ttccaccgat taaacttgct atataagcta 360
gatttgattt tctatgggtc acatttcttg ttcttgggtc tgaaccatga attgtgatga 420
gtataagttc ctttga 436

<210> 30080

<211> 346

<212> DNA

<213> Glycine max

<400> 30080

tatcttgtca ttgtctacgc cgaagacgaa ggatgacgat gtacctttct ggaaggatgg 60
tgaacaacga cccctaagaa gataaagctt gctgggaggt tgctgctgac acgggacacc 120
atagacttca ccgaagaaaa cgttctttga aactgaagaa gaagagaatg ttgttttatt 180

agatatatta acttttattt tatgaatgaa gggatttcta tgaagctcat tctattgctg 240
 ggcgcacccat caattctgtt ggggtgcacct agcaacagcc aggtgaattt cgcgcctatg 300
 ttggcctcct ttcccttaac caatgagtgg tccctccaatt gagcat 346

<210> 30081
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30081

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 gttcgtggat ctccctcngg gggagtaggt gtccgccatc gctttggcct tggctagctc 120
 ttcacatgat gattcctttg catcttgga gatgaatggc aatgtaatgg agacaggaag 180
 agagagagga gacgccactt cagggagaag atgagtctag aagaagctca ccacataggt 240
 aggccatgga taagagcttg gaggaagaaa gagatgaatg aagggagaag gagagaagag 300
 cacganattt tgtgctctaa atgagctctg aaatctgaag tttaatattc agatgatcaa 360
 agttcaaaaa aatgcacaca tatgacctct atntataccc taagtgtcac accaaattgg 420
 a 421

<210> 30082
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30082

tgcttatatt aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taagatgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaattg 120
 attataatga tggatggctc acattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaatgatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tccataaatt caaagaaaaa 300
 catgcaaagt cgtacgtgca cacaaaatng acccanaata ttaaactgaa gatccgacga 360
 aactaacaac atttacagag ttacacaact aacanattaa caaaaccaac 410

<210> 30083
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30083

nttgaaatca aactttttcca ctggtaatcg attatatattga ttatggtaat cgattactag 60
 agaataaaaa ctctggtaac ttagaaaatt ttgagaaaaa cttttttgaa aaacaaaatt 120
 gggctatggt tgttttttga aaaatctttt caatacttcc cttgtgaagt attcttgatt 180
 tcttctcttg aatcttgaat tcatcttctc ttgaatcttc ttgatttaat cttgatcttg 240
 aacttggtga ctcaatcttg aaatcattct cttgggcttt ttgtcatcat caaaactact 300
 tgaatcaact tgattcatca tcatgaagct tgcttctaca ccaaccacaa agtcaattac 360
 agactaagcc ttgtcttgga tatttagatg cagaaccatc ctaattagaa tccactgcag 420
 aacaata 427

<210> 30084
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30084

gatgccactc tacttcaaatt tcttgaagga tatggtaacc agggaacata agtatattca 60
 ccaagaaaac attataatgg aaggaaattg gagtcttggg attcaaaaaga acctttcacc 120
 ccaacctaaa gaccttgagg gtataactat tcctttgtca attggagaag tcaactatggg 180
 aaaagctctt attgacctgn gagccagtat aaatttaatg gtgctctcca tgtgtaaaan 240
 ggtgggaagc gtagagatca tgcccactaa aatgac 276

<210> 30085
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30085

cggagccnca tgaattgagt tttcgttatg cttctctacc ttcgagtttg gagccatgcg 60

tagtgattgc ttagtgcaat tctccattct caaccctttt ttcggagccc catgaattgc 120
gttttcgttc atgtgtcctc caccttcgag tttggagcta tgcgtagtga ttgcttagtg 180
caattctcca ttctccaccc tttttcggag cccatgaatt tegttttcgt tcatgtgtcc 240
tccaccttcg tgtttggggc catgtgtagt gattgcttag tgcaattctc cattctcaac 300
ctttttcggg gccccatgaa tttcgttttc gttcatgtgt cctccaccat cgagtttgga 360
gctatgcgta gtgatggcct agtgaattc tccattctca acctttttcg gagtcccatg 420
aattgcgttt tc 432

<210> 30086
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30086

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tgagaacacg tagccctcta aagtcggggg cgggtcacc tttgaaagac gaaggcgtcc 120
agccctctaa aagcgagggt gtgtagccca ctaaaggaga ggggtgtgcag ccctctgaag 180
gcgaggacgt gcaaccctct aaaggtgaag acgtgtagtc ctctgaagggt gagggcgtgt 240
ggccctctga aggcaaggac atgtaatcct ctgaaagcga gggcgtgcag ccctctaaag 300
gagaggggtgt gcagcctcat gaaggcgaag atgtgcagcc ctctaaagggt gaggacgtgt 360
agtcctctg 369

<210> 30087
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30087

tatgcccagag tcattcatcc ctatgagatg ttgttgattt attggcgatc agaattgcc 60
ttgcttgatg tacggnngttg aaccaagctc atgcttttac aaaaagggtc atcaagtcaa 120
gttgaaatat ggaagtaacc gtcttgcaaa attggggcaa aagatgaatc gagtcacatc 180
actgcttcgt ttactgcaa acatathtag gattgtttat gtccttgta cttccagttt 240

caccttgaca aagatgtcat ggaccatggt gaaaatctaa attgattcaa ccncatatcc 300
 tgcgtaaaca ttcgcaatac ttcaactgta catcattcgc atacatccat gcttttcatt 360
 ggttgcatg ctcatgcat tctttccttg aagaataana tacaatacaa aatggactta 420
 atcattgtta tc 432

<210> 30088
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 30088

caagctttta tttcctgaag ctccatggta tctatccact cattgaaacc agcacttgca 60
 tgaacaccca cataccctg agaggaacca attctttcat ccatactcct aatactgttg 120
 aaagtcccca agaaacacca agcaccctta ggattagagg cttttaagtg cttcagttga 180
 tcccaaagct ctctcttccc agctatgtca cacggggcat aaacatttac aatgtacaac 240
 agcaagttat ccttagccca tctccctgcc aacatcagaa agtttgtgcc cttgaccctt 300
 ctatcaacct cgaaggcaag gttattccac atgcaaagaa gaccaccagc agtggttaatt 360
 gaagggacac tgtccaaga cacacta 387

<210> 30089
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30089

cgagttcttn tcttagccct attctctgtn tgctnttgct tcttccttaa ggcattgttt 60
 cttctacaag ttctttgaat ctcttgatcc aaagggacta gatcttctta agaaactcta 120
 cctcatacat ggaacaaagc aactaaagaa catgttagca cagtactcaa gagtaatata 180
 aaaacagaat ttaaaagcaa agaattgaag aataatgaat cattgcatag aatatgaaat 240
 tagcataagt tgcctaatac gagaaacaag tccccgacaa tgatgccaga aaacttatta 300
 catcattgac aaacgtacca attagtgtag tattttcaat agtaagtaga aagactgtct 360
 cctcaaggac ttgtntgtac taagcttttc tgtgtaactc aacaactaag caatgataat 420

ttctttctttt g

431

<210> 30090
<211> 381
<212> DNA
<213> Glycine max

<400> 30090

tttttttctt aggggaggcc cttatggtct ccaatggtgg catcttcgaa tcctgcctgc 60
tcttggcatt aatactggca cccaatccac catcatcaga ccaatctctt tcgctgtctg 120
acccaaaaac actctcactc tgactaaaac tacttggact tgctgggatt ccgggtttct 180
gcttgctact tgagcctggt tctaaagcat tttccaattt atcacgaagg tttaaaaact 240
tgtgcttctt ccttttcgcg cgcaattcgc ttagtacggt ttcctttgaa gccgtctttc 300
agcatgtcta gccgaggaac gaaccttgac agaagaagga tgatgagatg aatctgcagt 360
agtagtatta gtagtagtag t 381

<210> 30091
<211> 445
<212> DNA
<213> Glycine max

<400> 30091

acgatatata ttctatcttt cttccttcct tatagacctt gtatatatgc tcataaacag 60
tgtacagggg tattttaagg ctactccact cgatecgagtt tatattcaca ccagccattt 120
ctattttcga tatcttctca gcacttcaga ataacaactt gcattttatt ttcttttgct 180
tttgaggcta aatcaggcct acggatatgc ttacagcgtg tagttctgcc atctatctat 240
cacaagagaa agagaagcgt tacactaagc tagtattaag tatttaattt aataataccg 300
tgaagggatt ccgaatttat tcattgaaag taaaacatac aaaacgggga cgatcacata 360
cagaggacca gttgaaagat gtttctagtc tagctctcaa cagaccaca ctggaaagat 420
gcttggtggt tgctggcatc tttcg 445

<210> 30092
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30092

agcttgtant cattgtctcc acgccacatc tgtaaataaa atttcccacc ctaaccaagg 60
agattgtgac catcaaggct gatcaaaaagc aagcacaata atgctatgct gagagcctga 120
aggtaacacc ctatcctccc actagggagc ttgccaagcc tcaccctaca gcggttgaag 180
gtactcaagt catgaacaaa gggcttccaa tccgagcctt cattgtttac caaacaagcc 240
tggacgatga atttgatata gatttgtggg agaacacttc tgacagaggc caaaagccca 300
tcgaagagct tgtcaagctg catgtaagga cctcactagc cttgaacaca agcacatcat 360
tgatgtccta tacaagaaca tggacctggt ctcttgacgc catctgacat gccgag 416

<210> 30093
<211> 417
<212> DNA
<213> Glycine max

<400> 30093

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attttcaatt cagttcccaa caaatcctca tcattctagt tgttgtacca atgacgacga 120
caacaacaac tattggagca tggaggatat ctggtcaatg caattagcca attactgaac 180
gggaattaaa cctataaaca taaatataaa taatatatat aaacctaagt gtctaagtcc 240
cataaattaa gctgtagtct ctggcttaaa acatgttagg tttgtttata caagtagttg 300
gatgtttgga gtacttcggc cttttgcgta ccatcaatat ttaagaacta agttagttat 360
gctccgtaac ttatgggctc ttaataaact atatctgcac aaaattatat atatatac 417

<210> 30094
<211> 375
<212> DNA
<213> Glycine max

<400> 30094

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ggaaccaatt cacctgcaga agatctacgc atacaaacac taacaggaac agcagttaac 120
caattcaaga agaaaataaa ttctgaacta aacaaatatt aacaaaaaat aattaataaa 180
tcaaagaata atgaattaat gccttcaaac tgaactcaac tttccaaatg gaaaaagtcc 240

cccggcaacg gtgccaaaat acttgatggt cgcccctaag aatactactt atttgtgtgg 300
 gcgcagaatc taccggcgag tgcacgcat cgtcaagtaa ataattaaaa cgaaataagc 360
 cgaatatcga acaca 375

<210> 30095
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30095

gagagtgcct tgaataagaa gcctagtgtt tttctctaag ggaggaagac aatgagagag 60
 agggatgggg acgtgcgaat tgaaggagat tanggagaaa agttaaactt tgaagtttgt 120
 ctacacatgtt tctcattcat caaaattatg gcaagtgtta cacatgtttc tatattatagc 180
 ctagcacagg ggaaacttcc taacttcctt gagaagcaag gaaggtagct tccttgggaa 240
 gctagaggaa gatagcttcc tagagaaact aaaggagggc tacttacacc catccaatag 300
 ctaagctcac ccccatgcc aatacatga aaatacaatg ggaagcttcc ttgagaagca 360
 acgaaggtag ctttcttggg aagcaacgaa gaaagctcta gaggagggga aggacta 417

<210> 30096
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30096

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 agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120
 gatggctggt tctccgggag cgacgcgtcc agctcagggg caacgagtat actgatttcc 180
 aggaggagat agggcgccgg cgggtggacat cactgggttac ccccatggcc aagttcgatc 240
 cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgangtctg ggtaaggggt cagtggatcc cgtttgatgt tgacgctatc ggccagctcc 360
 tgggatatcc attggtgttg gaagagggcc aggagtgtga gtat 404

<210> 30097
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30097

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tggatgaatg caagagtagt tttcgaaatc tgcactttat gcagaatttt gctgttgaaa 120
tgtgcaacag aattttgtat aagtgcagaa aaatgcttgt gtatggctgg ttgtgaaaag 180
ggtagtacat atcgggttct gaacatttgc tagcagatcc caacgggtcaa aatgtagact 240
tatgtactag agactgccag taaaattttc gagtcgatcc aacggttaac gaattggaac 300
gaaggaaacg ttactggggg atttgtatgt gaaaagctgt gattntgagt tgtgttttgg 360
gcagagtttt cttgcctttg cctgttttgc ttgggttttgt gagtccatga tgattggatg 420
tgg 423
```

<210> 30098
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30098

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ttagtaatga cccactaacc tagaattaaa ataacttaat gccattaacc ctaggaatta 60
aaaaaaactt aatggctgaa tgtaactgaa attgtggcaa ccaaaagtca cccccaatag 120
ccaacaagtc agccaccatt tgggtctcca aaaggctgat gcctangttg ccaattgggc 180
ccttattaca acttgaacta aacctaacta aagccctttt agttgattaa cccaaaacat 240
atTTTTggtc agccaacttt acaaggattg ggccattatt tagacagact aaacactcta 300
aaattgaaac aaagtgggtg catttaatcc tccttcattt gggccatgat acaactcaca 360
accttttgga ctttctc 377
```

<210> 30099
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30099

gaataggaag tggtatgggc gaaacttcct gcngttattg ttgaccacag agtggtacct 60
ggagatatgt cgcaggggtc acgacacctt gaggacgtca ggtgggggtgc tattgccccaa 120
aaccaagctt gaccaatccc gacccaaccc gggcatagtc ggtcagtgaag aacctgcgat 180
gtacctaatc aggcgagctc ctgccagtca acagataata ggaaaactag accacaaagc 240
aaggaggctt gtgggtggctg gccagctgtg aattttgtgt aatatgtgga ttgaggcctc 300
tggtaatcaa ttactaaggg tgggtaatcg attacaacgc ttattattga agacaggagg 360
ctaagatggg ctctggtaat cgatt 385

<210> 30100

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30100

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gttgctgtgc aatcccttct acagcttgcc ctgcagcagt gccttgacca accccagggtc 120
caatagaagc aagccctacg gccaacccag cagcaataac agaagcagca gaaataattg 180
gattcatgat aatttcctcg taacctaaat ataaaataaa gaaatagtta atgatataat 240
caaccaataa attatgactt aattnttcaa ttatcaagat ttattcggtt taaagtaatt 300
aataagaatt ccgaattgaa aataataata gttattgaac tctacgaatt acttcgagat 360
ttattttttc gtctctacct acatacatna gttttttttg tgaatatgt 409

<210> 30101

<211> 410

<212> DNA

<213> Glycine max

<400> 30101

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aaacatgtca cttccaaagc cattcaagtt acataattaa ctttttttca aataataatg 120
ataataaata tctaatacgc atcaatgatt catgagcact taatatcaca tccaatctaa 180
aatcttagca cactaaatct tcatcgatga tagtgaacta taaaataaaa ctataagtga 240

cattaattct tgggtgtttt ttctaagaat gtattttgtg aaaattaaat ttaacttttc 300
tcttcacaaa ctcaacgtgt gtatcaaag atacacctat tagattgcac tgtaccagac 360
tagtttaatt ataaaaaaaa aaatcctcat ttttcttttt gtttggcttc 410

<210> 30102
<211> 495
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30102

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gatagagagt cttactgttt attgcatgcc tatatagctc tacaacataa ttaagagtcg 120
tactaaaaaa aaggtaaaat ctattaagag agtcttactg tttatgtcat aatttataac 180
ttttattacg aattgggata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tatatatata tatttttgcag gagtcataac ctcatagggg ctgattttat 300
tattgggatt atcattctat tttattttga aaattgtctc tttttctacc tcgcgcttaa 360
gagaatttct tatactatct acttctcttt acagcactta ttgcctcctt ttctatcata 420
actcttgata ataccactgc atcgctgtct aataatatac catgtctgtc atatagccct 480
tattctctcg agacg 495

<210> 30103
<211> 295
<212> DNA
<213> Glycine max
<400> 30103

tttcttattc gagactcgcg cctccgggta aggggccaat aatttccttt tatcaatttc 60
tgggccaccc ccctgatat tggaaggcga ccaactgtgc cagcacaacc agaaaggga 120
gctatcacgc agctactatg cataccgggg taagatttca cccatgccgc tgcaaagaga 180
cgagtgtgga tcatgtgtac cgacatgacc ccttttacac agatataaat gatgttgcta 240
cttagcaaca ttcttgccag cgaccgcaat accgatctcc ccctgcggaa gtatc 295

<210> 30104

<211> 438
 <212> DNA
 <213> Glycine max

<400> 30104

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cccttatccc atgcttcttt ggccgtcgat gcgttggata tcttctcaaa tgtatcttca 60
tccaccgagt gataaatgag aaagagagct ttcttgtctc tctttcttga ctacttcaac 120
gtctccttta caccttggct tagcgaggct tcatcttgct cctcgaagcc attctctacg 180
atatcccaca catcttgagc tcctagtagc gccttcatct tgatactcca attatcatag 240
ttgttctttg tgagcatcgg cattcggaag ggaaaacctc cattcgccat cttttgagga 300
tcttgaagct ctgataccac tttggtggaa ataaggctct ttatgtctat gaaaagcgtt 360
taggaatatt ggagactctg aatagacact tgataggaag gagaattctt tatggaggag 420
agaactttgt acttttgc 438
```

<210> 30105
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30105

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tgcccgctgt tgagttgttg cagttcgcg acctttgtca attaaccatc ctctacacn 60
nngaaaatat gatgacatag ccgctctata gtatttatcc tctaacaaa taaattcgag 120
ctggtggacc atcttctact aactctgact tacaacagta ttcttatccc tcatccatt 180
cgcacctaaa gcatgtgcac acaaaaaaat ggaagaagt gaaaaggaga tcttgagac 240
ctctacgaaa gtagaggcta acataccttt attggacgca ataatagaaa ttgccagata 300
tgctaaattc ttgaaggaat tgagcaatct catcggaact gataggaagt gaacgaatat 360
tatgagcaca aatgcttcgt atcattggaa agcagctccc aatccctgaa aatgtaaaaa 420
ccatgccatt atcatactg attaaggagc tatgtttgac agcccgctaa ttatgactcg 480
```

<210> 30106
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30106

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cagaaaacca ttaaaagaag tataactttt aaaaaaacct tgaaaccatt ggaatagtta 120
catcttttga tttttattca aaacttatca ctggtaatca attaccaaatt cattgtaatt 180
gattacacaa agcatttttg tgaaaggatg tgactcttca cattttgaat taatttcaac 240
gttcaaacac actgggtatc gattaccana tcattgtaat ngattacacc 290

<210> 30107

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30107

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aggggtttgt gacaaggaat gggatgagtg ctacggaaat ggttgctggt ggttggtgt 120
gtggaaagga tggcaaggga aggggtggtt caacggatgg tatgggttgc aatggttgga 180
gctataatgg cagccacaga agctccattt agcgagtggg gtggatgggt gtagtggaag 240
ttggtatggt agccatggaa gacaaccatg agctctcaat gaaagcacca aatgctacaa 300
acgcaggaac aatggggaag aataacctag cttcgagggc taggaacctc cataagagag 360
aaaaataagg aaggaaaact tgtatctatt ttntgctgtc ctctattgca tactaagcat 420
cccttatat 429

<210> 30108

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30108

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atagaccccc cacaaagaaa atagggaag gtaacataaa atcccaaat tagccacaat 120
tatcaattaa acccaaatat ttgcctaaga acaaaatgaa gtaaggtagag aaaataagag 180
ccaaaaagag gtgaaatatg ctaaggagaa tagaaaaata ttaaactaag aatgctcaat 240

caaatttccc cacactttat cttttgact cctgggcaaa actaagagaa agactaagaa 300
aaagaaatca aactaaagggt aaaccacaac taanagaaag gaatgaacaa gacacacata 360

<210> 30109
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30109

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ttcttccttc gtgcacaata gcatgttcta gtcctagtct agaagctatg tgtttcactc 120
ccatgacgtc atcctctgag accagtttca tctatatatt tgcattcatt ttgacatttt 180
ccaaagctaa ttttatggat tgaagactag tagtgcatct gagacctatc aatcctaaca 240
agatcagttc ttcttgctga agttgttctc catctctttg tgtataagca aaagcaattg 300
gcttaagggtc agcatccccc atttgttgaa tcacctgggc aactttgaac ttcttatttt 360
ccatggcatg tgtggcggtt aaacaaatta gttttacaca tganattaan aataaaaaag 420
gaaccttcga gt 432

<210> 30110
<211> 420
<212> DNA
<213> Glycine max

<400> 30110

aatctacaga gatattcttc tatacgactc ctaggctctg aataagttgc agcaaccccg 60
cgggagacta cacctgggtac ttgtcatgct gatcaacgtc acattggcgg atgtactcca 120
ttataatagc tctcattctc ttccaaaaga agctggatga caaccgctta tacgtcttcg 180
tgaattccga atggccacct gcaaccgtgt cgtgaaattc ggccatcaca gtaggttacg 240
caacatcaga cagcctttga agaataggac accatcgtgc agagtatagt gtggcagaga 300
atcagaatca gattgcaatt gcgagctcaa cttgaccaac tcaaggcat tatgcacttc 360
gtgcttgata gcagggaatt ccaccaata aggactcatg cagatgggtgc tgaactcact 420

<210> 30111
<211> 416

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30111

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tggtacctgn agatatgtct cgggggtcag gagacctttg ggacgtcang tgggggtgcta 120
ttgccccaaa ccaaacttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgagaa 180
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa tnttgtgtaa tatgtggatt 300
gtggcctctg gtaatcgatt accanagggtg agtaatcgat tacaaggctt anaaattgag 360
gacaggaggc taagatggtc tctgnhtaag cgataccaag ggggtgtaac gattac 416

<210> 30112
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30112

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taaaggcgta atagaacttt aatggatatg attaggagta tgtaaatcaa tttgacttta 120
cccgtatctt tgtggatgta tgccttgaaa actgtcatgt atttgttgaa taggggtcct 180
agtaaggcag ttccaaagac acctttaaac tgtggacaaa taggacacct agtataaggc 240
acctgcatgt ttgggggttgc caggcagaaa taaggattta taatccgcaa gacataaaat 300
tggatgcaag aacaatcagt ggatatttca ttggttatcc agaaaatgaa aggggtatat 360
gtttttattgt cctaatacata gtatgagact tgtcgaaact aanattgcaa gattcattga 420
aaatgaataa atcagag 437

<210> 30113
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30113

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 ccactcctca cgtntgggtt tttcggggaa aaacaccata actaaacgcg ccgcaaggga 120
 tccctatcgc accagatcca aatctagaac gatgggtgat caagaggaga cgcaagaaca 180
 gatgacagcc gacatgtcgg ctctgaaaga acaaattggcc atcatgatgg aggccatggt 240
 aagtatgaag cagctcatag agaaaaacgc ggccaccgcc gccgctgcca gttcggctgc 300
 cgaagcagac ccgactctct tggcaactac gcaccatcct ccctcaaaca tagtaggacg 360
 gggataggac aactggagc acgatggcag ccctcacctg tgataca 407

<210> 30114
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 30114
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 aacatgattc tttagagtct ccaccaatta aacttgctat agaagctaga tttgattttc 180
 tatggttcaa atttcttggt cttgttcttg aaccatgaat tgtgttgagc ttaagatcct 240
 ttgagttctg ccttggttatt ttctgtgggt gagacctaca ccatacaatt cttaccecaag 300
 t 301

<210> 30115
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30115

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 gtcacaccct tgaagtagga tcacaatata taagaagagg atgagtcaca cccttgtttt 120
 ttggctttta aacattgttt tggaaacaat ttcttaaact gaatagattt tgaatgaaaa 180
 attaattcct gaatagtgtg aaattacttt agaaaatagt ttttaaaacc aaaaaggtag 240
 aaggaaatta aatagatcct aaatatatttc tttatgtaca ttntatgatt attatgttca 300
 atgtcttcat catttactta gcttggaata atacaaactt ccactttctg cg 352

<210> 30116
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 30116

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 tgatgtagag aattcgattg gatcgaatga gtttagaccc atttctcttg tgggttgtct 120
 atacaaaatt gtagctaaaa tactttctat ttgccttacg aaagtgttgc acaaggatcat 180
 tcatgagtga caattggctt tccttgaagg tagaaatatg ttagatggag tggttatagc 240
 aaatgtgtcg aacatggatt tcctaaatta aagggtgcat tgagacctt actatgtcgg 300
 ttcttgtgaa tgggagcca actcacgagt ccaaaaacga gacgggctcg gtggtttgta 360
 cgaatgccat 370

<210> 30117
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30117

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 atttgcagaa gaacataaac cacagactct tgcaacaggt gcagatttct gattcatggc 120
 aatctgagtt actaagggtga ccaaggcatc aagttttccc tcaggctttn tattttcaat 180
 agatgaagat gaattcgtgg ccacctcatg gactcctcta aggacaatag catcatttct 240
 tgcactgaat tgttgggagt tggaagccat cttcttaatc aaattcctag cctcaacagg 300
 ggtcatatca ccatgagctc caccattggc aacatcaacc atactcctct ctatgttgct 360
 aagtcctta tagaaatatt gaagaatg 388

<210> 30118
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30118

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 gaaaatgttt ctaattcatg ttctacttat ctcttcacac ataattttta caaccctttt 120
 tgttcattac taaacaagct gaaatcaatc acaatcacia gcaagatgtc ttaactacat 180
 gcaaaaaata aaaatgaaga tagagaaggg aaagaaaagt tgggttgcct ccagtaagc 240
 gcttctttta tgctactagc ttgatgcac atcctgttat ccaggatcca ataatgttcc 300
 cacttcaagg accttcttct caggcttctt ttctccatc acatgaactt taaaatagac 360
 attccggtca agtgggtctt tatcttcatg aaatagatca aagctgattc tctgatcttc 420
 tatgccaatn tgcaacatct tcttc 445

<210> 30119
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 30119
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 atgaatgata taggggtgca agaacttgcg ttcaattttt tttttgggtcg atttatgaat 120
 caaatttcat aatataaata aacattttgc agtttagtta caaaacatat tagtttaaac 180
 acatttgaaa atagattttc gaaagtgttg aatctacact ttggaaactt agtttctaga 240
 agtacaagca ttgttcaa atacaaattag agtaccttac tgaatctcca tgctccatta 300
 tgtatgtatt cccctcgtca ctaaacctct ttggacccat tgggtctcaca tcaagacacc 360
 attgcattga agactcatgg accaccacaca tgc 393

<210> 30120
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 30120
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 atatggcagt gctcagggcc acgatgttat ttacaatttc tgaagctgct caagctagag 120
 agaatcatta catgcacatg cgcacgcacc ttcttcacta attacgtacg ggtatagata 180
 ttcccatagc taatcataat ttcttgttct ctctttaatt gtgtgtatat ctattttatt 240

ctattacgat gcatatatca tgccatagaa tgatgatctt accgattttc tacaatacat 300
 ttgtcgatca actccgacgg aagaaatcta agaaatgaaa gaaaatatga atatgac 357

<210> 30121
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30121

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 gagtctatatt tgtaatgagt aagtcattaa ttttgcctc aaactattac cctttctttt 120
 gaatgatggc taatgtaaaa aataaaatat aattactoga gtagtgccac aagtattgta 180
 tatcatgcta agtaatcctc caaacattaa aaaaattggt caaattgatc cctaaattnt 240
 tctcanatac ataaacttaa ggaccaaatt gataaatatt caatactacg gngattagct 300
 aaatactttt attacttttg ggacaattta tgagatagaa agggccatac ttcaatgaca 360
 aaattgatgg tttattcatt gtggaatctt canataaatg gtacagaaag atat 414

<210> 30122
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30122

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 gtgtttgaaa aaagataaaa aaggagggtt acatgataaa tccaatccac ccccatccc 120
 tacctccttt tcccttctcc atctanacac actagaaact tccagggcac attccaaact 180
 canngcaaaa aaggatgaagc cataggatca catattactt ttgatatacc ccaactaaga 240
 aaaaaatntc acataaacac aatntaaaat tatttttttt caatttcacc tccattagac 300
 tcagtatcgt ctctcttccc aataacatat ctggagctc cccaagttcc attcactctc 360
 tgcctcagta tatangactg aattctcggg tgattgtgtg caatctagct tcagcttctc 420
 aggttcttct ta 432

<210> 30123
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30123

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 acctggctca agaacgactt tctttctgct tttgttggt tgccttgcat agctcgatt 120
 tttcttttca attagagcct tcacttgctc atgcaacttc ttcacatact cagctctagc 180
 ctgtgcatcc ttatgcttaa acatancaat gttaggcata ggcaacaaat caagaggagt 240
 caaaggatta aatccataca ctatctcaaa tgggtgaacaa ttagatgtgc tatggacagc 300
 ccgattatna gcgacactca catg 324

<210> 30124
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 30124

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 attggtgttc cttcccgca tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttggtttt 180
 tctaaacccc atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240
 tgcacgcggac agacaaggct gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300
 aaaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatat acttctcgcc tgacac 396

<210> 30125
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30125

accaaaccaa acaacattca acccaacct aagttcaact tcattctttg ttcatttgat 60
 tcgctcccaa acagagacat agcctctttc ttttcgtttg agaaacaaac ccctcgtttc 120

aatcattgat ccttttctgt taggtttgtg aatntgcttt tgtttttgta aaactttgca 180
 cctccccctt tttggatttc gtagttaggc gaaaatttta atgtttccgt gtttcaaatt 240
 tgcagatacc agttactctt ccaatttcgt catggccaaa acctccttca agcttcagca 300
 tcctttgggt acttnttttt cccctttaat atttcgttnt ctcta 345

<210> 30126
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 30126
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 agagaaatat tgccaaaaga agcttcctag ctatagctctcc taaaaagcag ggatattata 120
 gaagttggaa ataccacccc tacaaccttt ctttgatttg atcctcttac tgtgtccttc 180
 attcctatgt tatggagcag atccccctcc aaagaaaaaa gaaagaaaag cattcaaaca 240
 agttttgata gaaaagtcgt agagctagta catacaagta aagctaagaa tgtaggactt 300
 tgattccttt gctttttgtc tctctttctc tctccccatt aaacggaaat taaattaaaa 360
 aaagattttt tttttcattt ataaaaacaa aaggctgata aagctgaatt catatacaca 420
 gagcagtttt acagtcggac atg 443

<210> 30127
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30127
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 ggaggtataa atctttaatt ccaccttgat tttgatatta cattaaccat aactcgatgc 120
 tagtatatac gaaaaaaaaa ctgtaatttg attacttacc ttatgctcta atagccagag 180
 gatcaaggct tctctcacct acgcttgctt attgtcttct agcatatgca acaaatgtaa 240
 ggacagacac ttttggattt catgctactc atc 273

<210> 30128

<211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30128

agcttctggt cattgggccc gtaaaactca ctagggatag cgggtattatt aaacgcagac 60
 aaagcaacca gcgataaaac ccaatacaga taaagcacct aaactaatag aaaagtaagc 120
 ttctccagac cataccagtg cacgccgagc ccatgcaaaa ggtttgggta agatatgcc 180
 gattccacca agtatacaaa tggaacccaa ccatacatgc cccccaatta tatcttccaa 240
 atcgcacaca ctaacaatcc acccttttcc cccaaaaggt gattttaata aatatccaaa 300
 tataatactc ggactaatgg tcacattggt tatttttctt acatctccgc ccccgaggc 360
 ccacgtatca tatatnacct ccaatanag agccttgaat actagatgaa acgcaccta 419

<210> 30129
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30129

agggaccgcg agtgagnctg agaccttgca caacatagtt atttagcatc catccccgag 60
 agggaaacag cccggatcac cagctaattg ttttaattga ccgctcagtg acaaaggagg 120
 taggggtgca gagacaacca ggaggtttgc ctataagcag acacccttga aagagtgcgt 180
 aataactcac tgatcgagcg ctcttgcgcc gaagatgaac ggggctaagc gatctgccga 240
 agctgtggga tgtaaaaaag aatccgtagg ggagcgtctc cgcttagagg gaacgacccg 300
 cgcgagcatt gctggacgac acggaagcga caatgtcggc ttgagtaacg cacacgttgg 360
 tgagaatcct atgcctcgaa aacccaaggg ctctctcgta aggttcctcc accgaggggtg 420
 agtcatggcc taagatcatg ccgaaaggcg tatcgatgga cacaggcgaa tattctgtac 480
 tacctttgtc ggtcg 495

<210> 30130
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30130

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tttatatgan gatanagctc tcttgcttct gaattcctta ccaaaatcct ttgaacattt   60
caaggatgcc attctttatg gccaaaaaca aaaacttacc cttaaagaaa tcccgacctt  120
caccagggac cagggaaatc caaaaccgcc agggttctaa tctgaggata atggtgaaag  180
cctgaatatt ttcaaggaaa ggagtgaaaa aagggaacaa gaggaaaaag tccatatcaa  240
gtcaagggat tcaaagaatg gctagaanac aaagttcana tgctttaatt tgtcaciaac  300
tggtcatttc aagaaagact gccatacaa gatcaagaaa ggatctttgg actctgctga  360
catagttgaa gcctctgang gtatgagagt cangtgttta gtagcttcta tcn          413

```

<210> 30131
<211> 445
<212> DNA
<213> Glycine max

<400> 30131

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aagagcccag gtagtcgaag agaagttcaa gtccatatcc ttcaaagtct gaaaagagta   60
tgatgaacta agagacgtca atatggccac cgctgaagcc ttggaacgag aaaccaagaa  120
ggcccgaag gaagaacacg accaaagcaa agttttgagg ggctttatag ggcagcaata  180
gtgagctcaa gctccgaaga ggtgaaagga atcatcatgg gtcaaaggca tgatcttgaa  240
ggacgagcta aaagcttgcc tcatgtcgaa aagaaatttg tcccaacagt taagcgagac  300
agaagggaat atgtgggcca tcatcgatga gtgcaaagag aagctaaatc tatcggcgac  360
tcataagcaa aggctagagg atgagtacgc caagatatca gcagacaggg aagcaaggga  420
tagggttatt gattcattgc accaa                                     445

```

<210> 30132
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30132

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gcaagtcgac tctccacatc caciaatcac acataaatcc accatcccca gttgtccacc  120

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ttcaactgag ctacagtget cccacgtage ccttatcctc gttcctetca acaccggggtc 180
 cccatcaatc cctccaagct tccacaacat ccaagaaatt cagcatccaa acatcatgaa 240
 ctatccaaaa ccaagaaaac agggcatagg cagaaaactc ttcccaaaac acattccaat 300
 accacagttt tcctcactca nataccccag taacattctc tttgtttcga ttogttaacc 360
 ggtggatcaa ctcanaattn ttactggagg tccctaatac atatatctac ag 412

<210> 30133
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 30133

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 attgttagtg gtgtgggtta ccattattgg aacaaccaca tgcaaatttt tatagagaga 120
 attcttcttc ttcttcttct tcttcttatt catgagattg attaacggat cgagggtttc 180
 ttaagttgaa ggaattctga acacaagga agggttgtgc ctatgtgggt cagactttgt 240
 aaaaggcatt ttacaagata gtgaacatct caaacgggtt gtttgagat tagacgtacg 300
 cacagggcac gaccgaacta gtataataac tgagtttgca ttctctcttc ccttaaaatt 360
 ctcttactta ttggtcttta tcttttgcac tacagaagtt tactttgaat t 411

<210> 30134
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30134

gctttgtttt aaccanatat gaacaattta tgcgaatcat tctttcttgg aaaactttct 60
 ataaattctt gtaagattaa agctctcaaa acacctttta taccttgaga aaaaagactt 120
 aaagtgttga gtgttatatt tgtctataag accatcacta aaattaatcc atgtgtaac 180
 ttttaacaaa tctttgtgat ttgtttaaag ccaacaatgg cttgatagaa caaagaatat 240
 tggtttaaat cacacttggc gtgagcttgt acgtgaagag ctagaagtga cagtgaataa 300
 tacttgtaac tctgataagc tagtggaac ttggttgta ccaagaattg aat 353

<210> 30135
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 30135

gcacaattac cccttccact cttccatata aaatatctac ttttaaccagc tttgcttccc 60
 tgggtgcgtc taaataaaagg attcaagaaa tgttgtgcct tcaacaggcc aacctagaag 120
 aaaccatggc atagagcttc ctcttctaata gcatggaaac caattcgctt atcaagaaca 180
 ccttggaagc ttactcaag tacttcaacg actctcgat agttctatat taatatgcta 240
 atgcaacaac gacttgcttc aaccggctaa tcccttgtgc tacaaccagc tacttctttc 300

<210> 30136
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 30136

agctacttga tgttgaatcc agaatgattt agagagtctt gatgatcaca aagatgatga 60
 caaagagccc atgagaatga gttcaagatt gacatctgaa cacttcaaga atcaagagga 120
 aatttgagtt caagattcac gaatcacggt tcaggattta agtttcaagg aatcagagaa 180
 tcagcgagtc aagaataatc gagttgaaga ttcaagagtc acgtgaagac tcgattcaga 240
 taagtacaca aacgtttttc aaaacattga gtagcacatg aatatctgac aaaacctggt 300
 gccaaagagt ttttactctc tggtaagtga ttaccagatt attagaagtc gatacca 357

<210> 30137
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 30137

agttttctct cttaaatttc tataaatagg gggagaagtg aagtataaaa gggttcagcc 60
 ccttaagcac ttactctct ctcgaaatag ctgacgaaaa ttagtttctg gaagaaaatc 120
 caagccgagg cgcttccgta acgtttccgt gagtaattac gcgaagatgc tcgaccgttc 180
 ttcaagattc atcattcggt ctctgctttc ttcagtcttc aacgggtaag tacctcaaac 240
 caagcttttc aattcattct atgtaccctg ggtggccac atttcgcttc atgtattttt 300

attctcgttt tcattacttc ttatacccct tttagacgtgc ttaagccatt tatttaagtc 360
 atttctcgct ttaatctaaa aat 383

<210> 30138
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30138

cgancacggc cntattgaca cntttagatt ccccgccact cgttagatta ttcaacctcg 60
 ccaccagct ngactatgca ggctacgggtg ctacttctat attctccgcc ttctggcgga 120
 acctgctgga atgctcaagt gggcctggct cctatcctca ccacatgtat actaaatata 180
 cccaaaccac ttactcgttg attcctcatc cgtaaccgta cggaactcta tgaatctcgc 240
 aacgatcctc gctctatgtc cagaatgtca cgaaacctta cggattacac aatcatacct 300
 tatttggcct ccgaactgta actgaacttt accgactgag caacaatgct ctcttttgac 360
 gtaatgcatc gcacccaact ctacggatta tacaacaccg catcctttcg acttctgcga 420
 tgtcacgaaa ctttaccgac ttactcataa tgggcgcaca gcaccttcaa gcggtcaacc 480
 atggtctctc ccccaaacc 500

<210> 30139
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30139

ttgcttctta caagagacta agaaatttct gacaaaaaat cttgagatga aagatcttgg 60
 ggaagcctct tctgaattag gaatcaagat actaagagat cgctcttaag gtatcctaag 120
 gttttcacia gagagttata tcgataaggc cctaaataga ttcgacatga aagatagtaa 180
 accaggagat accctgatag ctaaaggaga caaatttatt ctcaaacaat gtcccaataa 240
 tgaccttgaa agaatagaga tgcaaaagat tccttatgca tcaacagtag gaagtcta 300
 gtacgctcaa gtttgcactc gtnccgatat agcatttgta gtaggaagtc tgggcagata 360
 tttgagtaat ccttgaatgc agcattttaa agcagcnaaa cgtgtgatgc g 411

<210> 30140
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30140

ggctctagcc tcactcaccg cctttctggt tttatttcta gctatcttat acttatccgg 60
 agtttgagaa tttctacacc tagaccactc cttgaaacac tcctttttta ctctaacttt 120
 gctctgaaca ttttcattcc accaccacga ttctttaccc ctaggtccaa aacctctaga 180
 ttcaccaaac gtctcttttag ccactttaat aatctcttgg gacatcttgt tccacatata 240
 atttgcactt ccttgtgatt gtccacacca accctcccat atctnttggt ggaagattcc 300
 ttgtttctca cccttcaagt gccaccattt gatccttggg gctaccatag gacttcttct 360
 ctttgccta tctctaattc ttacactcat aaccaacact ctatgttgg 409

<210> 30141
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30141

ttgagaagat tgggggtgac ttacctatgg aactattaca gttggcggtt atgagttatg 60
 ctgaatgtca tanagtagtt ggagacctgg accaaaataa gatagctttg gaaattttag 120
 ctgttcctga ccttcctcaa ttgggtccat tttttctaag gaaatcatca ccccaaggca 180
 atgaagacat tgtgggcca ggtattcctt ttctgttct acttgtgctt aatgaaattc 240
 acaacgggta ctcaaatttg gaaggagacg cactttcagt ataagcagag cttggcctca 300
 aataccaaga agttatgc 318

<210> 30142
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 30142

gtgaccagga tcaggttcca cgatgggaaa gctgtatata cagaaattgc gcaggaataa 60

gcgaagctcg ccccaacttg aagtaaaaag cacttcacag aaaactaaag aaactccagc 120
 atacaaagcc ctagaagaga tcaactaaac catgcctatg aacagaatat gcagtatata 180
 atagaagcaa taaagaaaac ttgctcacta ttcacaccaa taacaacaaa catagtccca 240
 gactcaaaat acacctacct tcaaacaaat agaaatagaa atatagacac agtacaatgt 300
 tatcattggc accattctaa catatagaga ataccgcact gaatctacac a 351

<210> 30143
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30143

cgcccatgtg tcatactatc tgggcaatca gctcgtcccc gngatccttt aaatcaacct 60
 gcaggcttgc aaccttgact tgtctgccta agcacactat gcctctggaa gttttctttg 120
 aattaagatt aacctaaact ctgggtcttag cccttggtgg gtggtgaggg aggttaacct 180
 aaccccttc cacccttaac ttaacttttt tattggattt taaagttttg cagttaagct 240
 aaatgcccc tgtgcgctaa cctggatgta ttctgataac gtgactaagc gcccatgcta 300
 cactaagctc actctcttta ttgaaaatg ggacctggct aactcaactg ctgcctaact 360
 taattacaan aaatatttgt gattcagcta tgcagttact ggcttatcct agaaaattta 420
 aagcgcgcta cgcactgctc ctaacac 447

<210> 30144
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 30144

ataaaagtta ttatgttaga catttgtgag acaaaatgat caagaggcaa tgggaccctg 60
 aaagtgtgaa gttgagagaa acctagatga agtgtaggct actttatgag tggcgtagt 120
 ctatgctcaa gtccttggaa agtgggttatt gtgtgtggaa ctgtatggtt catgttggat 180
 caagtcgaga atctagaagg gggttgaata gattatttca aaatcttgtg ttgtcaccac 240
 aatctgttgc ccttgcaatt tagcacacaa gaaccagta tcaccatcaa tatgagttat 300

ggtatagaaa aattttacia ggtctatgta gtaggtgcac ttcattctcca ccaattttctt 360
 caaccctgta taatactagt tcaactcagg aaaaaaaaaa tcttcacttt tgagccacgc 420
 caaactaaca tc 432

<210> 30145
 <211> 344
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30145

ttaatgggtat atttaccttt attagccata ttaaataatta tttattatta aacttaaatt 60
 taagccaatg gtaatactaa aaattgggtat tttttaattt ccttaaattt ggaaaattcc 120
 ccccccccc ttggagaaat ttcctaattc tgtccttgca atcagaccaa gtccagtgtc 180
 tggagtagat gaacaagtgc tcaatcttgt actgtatgaa gaaaaggatg aagacacatc 240
 agataccttt agagtatggt tggatgggga aacttaaaat tctgagaaat ttaaattcta 300
 gaatttcnat acttcaatga attctttatt tcaaaatttt tggt 344

<210> 30146
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30146

tgagactttt attactatat tttccacttc ttatctaacc ttggaaaggc tccacaaaga 60
 gaaagccaat attagaaata tgttttatttc tgatgaatgg atcctaaaca agttatctaa 120
 ggagcctaag gggaaagaag ttgcaaaggc agtgctcatg ccttcttttt ggaatagtgt 180
 ggtttacact cttaaagtca tggctccact tgtcaaagtg attcttcttg tggatgggtga 240
 aaggaaacca gccatgggct atatttatga agcaatggac aaggaaaaag aaacaattat 300
 caagtctttc aacgacaatg aaagcaagta caaagatgtg tttgcaatca ttgataaana 360
 gatggaattg tcagcttcat aggccattgc atgcattctac ccactttctta 410

<210> 30147
 <211> 211
 <212> DNA

<213> Glycine max

<400> 30147

tttttcgaac cattttccgtg aataataatt ttttggccaa atggggccaaa aggcaatttt 60
cgccaataa atgggaaaaa gccatgttcg gcccgaaaca aaaagcgggt gggctcgac 120
aaaagaaact aacccgacta cattttaaat tttgtatgca acacaaaac aagaaaactt 180
cctgtgccgt aaaaaaaaaa cattacatga c 211

<210> 30148

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30148

atgacgccga tcgaacattt cctaaccgac gtcttgctna tttcgttcag ggattgaatt 60
gaaaactcgt taggcgacat ctgtcgcgaa gtaccgaccg atatttttca gccgacattg 120
cacaattctt tttagaaaag ctcgctggtc gataatggtc tttttacggc agagtaagtt 180
ttcttgtttt ggtgttgc ataaaaagtta caatgtactt cggttaggtt tttcgtgcga 240
gttcaaccga cattttgttt cggccaggaa aacattagcc cacctctgca aaaaaaatat 300
ttgctaaccg tcttcatgca tatttcattc aacgattgaa tagaaaactc aatagccgac 360
aacggtcgtg aaatagtccc gactgatatt tttcagccgg cattgcgcat ttctttctaa 420
aaaaacgctc gctgg 435

<210> 30149

<211> 168

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30149

atgcttcaat ggaggaaaat aaagaggag agaaagagag aggggggggg ggggaacacg 60
aaattgaagg gaataaaaag ggagagaagg gaactttgaa gtatgtctca caagactctc 120
attcatcaaa gttacaacaa gtgttacaca tgcttctatn tatagact 168

<210> 30150

<211> 445
 <212> DNA
 <213> Glycine max

<400> 30150

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acgggcatct tagttcattc cttatgaata atgatttttt tagaggaaaa tggatacaac 60
tatgttatgc aagaattatg attcccaatt tagcaatttt attaagaatt ggcttccacg 120
ttttctctct tcttggggta gctccaatag ggataccaag atacacaaag ggaaatttat 180
tgatcatata gtttatgata ctagcatacc tctccaaagt gctatcttta accctaatag 240
tcctaaagaa acttttatga aaattaactt taagtcccaa gatgagctcg aaacctctta 300
atatactttt aatgggtatac acatttgaga gggatgcac accaaaaaat aataaagtat 360
catcggtata ttgaaggaga ttgatttgag ttttttcctt acgcaccaag aagctacaaa 420
acaaattttt ctcaatagct tgtct 445
```

<210> 30151
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30151

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agctnttgat caattcanat ggtcataact tttaactcag atgtctgatt catgcgcata 60
atatatcgag acgctcgaaa ttgaacaatg gaagctcttg agcaattcaa atggtcataa 120
cttttaactc agatgtctga ttcaggcgca taatatatcg agacgctcta nattgaacaa 180
cggaagctct caagtaattc aaatgggtcat aacttttcac tcggagggtcc gattcangcg 240
cataatatat caagtcgctc gaaattgaac aacggaagct ctcgagaaat tccaatggcc 300
atcttttcac tcgnggtcc gatttaggcg cataatatat cgagacgctc ganaatgaat 360
agcggaagct ctcgagaaat tcacatggct ataactcttc actcggaggt ccaattc 417
```

<210> 30152
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30152

gggcaacaat ggtggaggaa gataagaaga agaatgtttc tgtgagagag agggagagct 60
 tcagaatttc ttttggctga gtgaggagag agaacagctt ttggttttta aaaggggttt 120
 ctctttttct attattctat tcaagctatg ccacatgtct ccatttgagt ggagcgaana 180
 gggcccaactt tctcttttga ttgtgactca tactcagcca caaaaagtga gaaaatctga 240
 cctttgaaac gctaaaatcc tgctcgggtt tgcggtgcat ttctctgggt ccagttcttc 300
 gtgtttctct gcgtcgcgtc gngccagttt tcgaaagtag gcaatatata tatatcanaa 360
 cgctcanaat aaaaccccgga gcgtgggttca gaggttggtt ttgttaaatt ctaagtcgca 420
 cgcaaaatga tgatctttta actaat 446

<210> 30153
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30153

agtttttgtt tcctagaaaa ccaatatttt tttagcccag cctcattaca agccaataaa 60
 agtccttctg attcaatttg tgtatttctg actttatggc atgagatgat gtacaaagat 120
 tggacctctt gttagtgtt attggtaaata aacttanaca cttatgcgtg agtgatatag 180
 tggccgtgag aatttggtta aatatctttc catgaaatct gtctcttgcc tagcttcatt 240
 tagttgtgtt gttgactaac atgttctttt ctctgaanaa ctgcatgtct tgtgaaaagc 300
 aattgataaa angcattttg gttcatttgg tatcatgtaa ttaaaatttt gtgaatcaca 360
 cacctttgta cataatcaact gcatgctttt ca 392

<210> 30154
 <211> 444
 <212> DNA
 <213> Glycine max
 <400> 30154

tcttccacct ctctgcaatt agaaatccac tatttctaaa ggcgttgaaa acctggtgac 60
 acattaaact tatcacaact aaataccgtg agagagtcca accctttcag caatacttcc 120
 tctcccaaaa attgagcaca ttcagtaatt tcaagattgg aaaggcatgg gaacatgttt 180
 tccccatact cccttgataa cctttttaaag tttggatgat gacggatggg cagatcttct 240

agagccctga aaactatttc cccatcacag gactcctcat agaggatttc tacgtaatta 300
 ttattttattg taccctaaaat ctttaaagaa ggcagtttcc ccaatagtgg aagttgtaaa 360
 cagttttcac aattcagcag atttaacagg gttaaatact tgagagaagg agtagacatc 420
 cattgtggga aatgagcacc ttgt 444

<210> 30155
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30155

agcttgtatg tattatgggg taccatcac atgtggtact aggtggagggt ccggcgatgg 60
 tgcacaacaa attttccaca tccacaaatc gtgcataaac ccaccatccc ctgttgccca 120
 cctccaattg agctcagta ctcccagta gcccatatcc tcgtttctct caacaccggg 180
 tccccatcaa tcttcccaag cttccccaac atccaagtaa ttcaacattc aaacaacaca 240
 aactatcaca gccaagaaaa tagggcaaag gcagaaaact cttgccaaaa caccaaccaa 300
 aatcacagct tttctcactt aaagacccca gtaacagttc cttcgttcca gttcgttaac 360
 cgttggatcg actcgaaaat ntcactggaa gtctctagta cataatccta cat 413

<210> 30156
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30156

tgggacatct tgacttgctt tccaatctga cattctcctt atattctgcc ttctttctatt 60
 gtcagattgg gaatgcctct aacagcacct ttgtcaatga ttttcttcat gcctcttaag 120
 tgcagatgtc caaatctttg atgccatatt ttgacttcat cttcttttga gaatagacat 180
 gtggaggagt aactggtttc ttgagggtgtc cataggtaac agttgtcctt tgatctgctg 240
 cccttcatta ggacttcaact cttctcattt gtcaccaagc attctgactt tgtgaagttt 300
 acattgaatc cttcatcaca caactgactg atgctgatca agttcgagc cagtcccttc 360
 accagcagta ctttggttcag actaggaagt ccatcatgga ctagctntcc cattccagtg 420

atcttttcctt tagagccatc t

441

<210> 30157

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30157

agctttttttc aattctgccca ttttaagggt caaattgatac ttggaagtca aaacctttgc 60
acttgaataa ttggactgcg agtttgggct tttgttcgtg taattaattt aactagttaa 120
attgggctgc gaagtttgtg caacttgggtg tccaaagttt atccccatt ctgagtga 180
gtaacctctt tgggggtaag tttgagttaa aattgccaaa ttctgcctct atgagtttta 240
tcggtatggg caatttgggc atttcaaagg aaattatctc agaatgggct aaaactttgc 300
caaaatgtag aanaattcat acatcgaggt gccctgtga gggacaaaca caaacattan 360
gaatcatnt tgccaaattc atttatctgg accacttttg gaattccttt 410

<210> 30158

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30158

ttcttttgtg ttaggtatta agatactacg agattgctct tttgtatcct aaggttgtca 60
caagagagct atatcaataa agtacttgat agattcgaca tgaaagatag taaaccaggc 120
gataccccaa tagctaaagg agacaaattt agtctcaaac aatgccccaa taatgacctt 180
gaaagaactg agatgcagaa gattccctat gcgtcgtagt agcaagtctg atgtatgctt 240
aagtttgtac tcatcccgac atagcatttg tcgtaggagt tctgggcaaa tacttgagta 300
atcctggatt gcagcattgg aaggcagtga aacgcgtaat gcgttacttg aagagaacaa 360
aaggctacat gtcacttat tagaagnttg acaatntgga gatcatcggg tactcagact 420
ctga 424

<210> 30159

<211> 348

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30159

agcttggtgt atgggttcaa ttcttaacta tgtatagaga aaaaaagtca tttgttgaca 60
aaggttgat tcaactttatt ggtgaaagag tgtagtctgt agctgggtgt ctagaaatac 120
ttttaatata cacaaagtat gtatttaca aaaaaaatg atacaatttt cattgctaaa 180
gacgggtgta agacaatcat gaaaataggg tgcaggggaa aaaactaaag ctcagatcga 240
gcagaataga gcagggcagc agcttcttat ttgattgat ttgtcgggtt tcatttattt 300
taaaatgtaa tttggagact ctatgtttct ttcctttntc ttttatga 348

<210> 30160
<211> 96
<212> DNA
<213> Glycine max

<400> 30160

tcttttgatc cgactatgtg actaatcatt gattcttgtc ttattcaaac ttaaagctca 60
tctctcggtt gtaatagtgt atcatgttgg gatgac 96

<210> 30161
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30161

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gngcggatcg cttgatacag gctgtagagt tttggatgac gccacttcca gtgaaggaag 120
ataagtcagg gtagacacca cttccggtga aggaagataa gtctgggcag acgccacaag 180
gattaccttg ataagtctga gattgggttca accaggaacc cagagagaaa ctcaccatat 240
tctatcatat gccagaagct ttgtcttatt cagaacgaaa accaatactt atagtgtagc 300
tgaacaacaa gataaaaaata gacatgggcc ttctaaacag tttgggcaa aattacaata 360
aaaataaatt ataactanaa acttatttaa c 391

<210> 30162
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30162

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acacagcaac acagaatcta ggtgtccaac actccttcaa ttcaatgggt tttctaggtt 60
tgagaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca cacaagtcta 120
taacatcaat ctaaacttgc tcaaactgga tttacaccta aaattccacc gaatcaaaat 180
ttgactcttc aacacccaaa tttgccctag aaatggctct ttgttcactt tggtcatttg 240
ttttccctc tatcacagcc taacctttct cataagtcct aaatggcatt tcaagctaag 300
attaactcgc tctaacctct aaatactacc aaatccagat ttggccttcc agccctcaaa 360
aattcactct ntttccactc ataacaccac attntcactt tctaacccta ggttaattct 420
accattcatc tctaacagt 439
```

<210> 30163
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30163

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ggcgggtctcg atgatacgcg gagatacctt acggnatcc gcaccctttt gtcattccaga 60
ggcggcgggc cccgatgaaa gcagagacca agtttgggtca ttctgcaccc ttgtatcate 120
caaaggcggc gggcccgatg atacgcggag ataccttacg gttatccgca cccctttgtc 180
atccagaggc ggcgagcccg atgacaagca gagaccanatt ttggtcattc tgcacccttg 240
tatcatccag aggcggcggg cccgatgata cgcggaaata cccgagtggg tattcgtata 300
aacattcttt tgctatctgt aagacagaac gctngatagc atgcagaggc tgacatagtc 360
ttctgcacct tttggtcctt cggaacaac aagtcattta catg 404
```

<210> 30164
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30164

catgatgaat cttgactatc tacacaataa ggtgctacat tccatgctct tttcaagntt 60
ttgctaccta aagccgcatg ccaattcaag tatattttcc tttgctgact aaaattgtat 120
tcaaattaaa ggggtatacat ttttttgtaa tgtattttct ttacataaca tgcaacatat 180
ttatgtatat ttttttgtga gacattttga ctaccaaaaa ttatatgcac atacatccaa 240
gtatttttgc atcataccca aagtgtaaat tgccaaaggt attttgctac ctattctaaa 300
cctacacatt catgacgagc aaaattccta aacatctang cgtanggaaa ttattgtagc 360
gtggcccata gctgattgct ggccaaaaag ggtaactnta cccaatatng cacctctttt 420
gtgtctttt 429

<210> 30165

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30165

tagcttttta tgaaggaaat atgcttcccg actcaacgta tgactatcaa aagattatta 60
aggatcttgg acttgattat gttaagacag atgtttgcat tgatgattgt atcttatata 120
aaggaagcta taaaaacctt gatgaatatc ctatttgtaa gaaaactaga ttgcaagaaa 180
ataagaagaa aaataatgtc cccaataaca cagttcgttg ctttccaata aaaccaagac 240
tgcaaaaatt gtttaggtct aaacaagtta tgtaataatt ttggtctcaa cattttggaa 300
aatgaaaggc tccttcagtt ttggaattga gaagacanaa tgaatggcta ctaatgagtg 360
gtaatgacca ctaatgggtg gtaatgacca ctaatgagtg gaatgactac ta 412

<210> 30166

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30166

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tctcaaaata aaaggtgaga ttgttttagca acttatgaac ttgaaaattt tgagtttttg 120

ttaagtacga ctatttggtg tgatcatatta ttatcatgtaa actccattag taaaaagtta 180
 caatcaaaaag atatgggtat gtatgttgct atagaacaat tgaaaggtct tatttctttt 240
 ttgaaaaaat atagagaaga ttgatttgaa aatgctataa tttctgctaa agaaattggt 300
 attgaaatag atatagaacc taagcttttt gaaaaatgtg ttattcatag aaagaaaaac 360
 aatttgatga gaatattgat aataaagttg taaaattgcc taaagaatca tttanaattg 420
 attacttctt gtatataata 440

<210> 30167
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30167

gcttgtgcta tttctagttc atataccata cctttaagcc aaaatgcttc cttcactcct 60
 tcaactaggg cccttgatgc tgctttaata aatgaaagaa caaccactga atgggtgaatt 120
 gctttccaac taattgggtat acccaacaaa agaaatacat atccggtaaa gactttcttg 180
 tacctacatt ttctacaaaa tctgcatcta catagcctgt gattgctgcc tcatgtgttg 240
 tcttcttgta ccttaatcca gcattcaaag atccatttag atacccttagt gtccacttca 300
 cagcttccca atgtgcaactg ccaagatctc ccatgaatct gcttataata cttacagcat 360
 gagccaagtc aggtctgctg canaccattc catacattat gcttgcaaca ccaact 415

<210> 30168
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30168

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 tttgggaaat gagtgaaggg tcacgggtcat ggggtgatgtc ggggccagca atgtcttcat 120
 ccgcaagaag cagggtttaa tgggacttgc aacgggtggcc gtgagaccat ttatcatcgc 180
 aatggtaaca caggccctgg tctcagcgaa ttgcaagctc ttctgccgat aaacatttga 240
 cgggattttt ggtagagggg agggaaagtg tattataagg tttaggggaa aagggtgagg 300

gggtcgtggg ataagggaaa gggtttgggg aggatgtggg ggcacgggtt cctctgcagt 360
 ggtccaacat tntatcccc tggagacgtg ccagctcaat tgccctgtgga agcgagatgt 420
 ggcgcaacac atgga 435

<210> 30169
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30169

agcttgttgt atgcatggct agagatattt gtgtcgactg aagaccaaga atttgtgtata 60
 tatataagtt ggaagattct gtggaaaccc aattgccaaa gaaagtgact gtccatggat 120
 ggagggcata cgcattgagat atcacatggt gttgtcttcg gtccaactat gaaggataag 180
 ttgtgaagac ttgcgtaacc ncaccttatc atacattaat tggccagcat aaagtctcca 240
 catgtaacca aatgagacgt gcctctgtga aacgtaacgt ctattcaagc attatttggt 300
 attccatatt tgatatgttg tttgcgatcc aagtccacac accttcactg ttgggaattg 360
 caaagaattg tctgtggagg gagaaatatg catcgcacga agcattacaa aat 413

<210> 30170
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 30170

tgcttctctc agggacaccc ctttcttttc caatctcatt gttcctccac aagctcccct 60
 ctctccctat ccaataccag agagaaagat gaaccacacc acccacttcc aatcacacca 120
 ttgcttcctt caaaaccatc acttttcttc ttggtgacat cttcatcaat gccaccaccc 180
 cataaaaaat cttccatttc catgcctcaa taacaataat aaagttaatg ttcaaaaggg 240
 taggtgattt cacaaatagc acgtgaaatg ggaaatgggg ttgttttggt ctttcttata 300
 gtgggttttg agtgtgtgtg tgtttggaac taagtaagaa tgggtgagtgt ctgaaacagt 360
 gtaacagtgt cagtgcagc atatgaagat ggcaaaagaa gtaataatga gaaaagatct 420
 gaagggtact aagtaagaat t 441

<210> 30171
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30171

agcttggttat tatatacaaa acacacaaat tattatgaac aaattgacgt taatgacgta 60
 aattattagt aacacttacc actgcatgtc tcaactaagt cacatcagac ctttcagaag 120
 tgcaccgtgc tgctggctcc gtgaaccgac ggatatctgt gtctggatcc tgaggggcaa 180
 ctctgggctg cgtagcatga ccatctgccc gaggatctga tggctggccc ggtgtcatga 240
 atggatgcga aatgcggaag aatcagtcga tgtagtgcgt tgcacactgc ccttgacaaa 300
 cgcagatgtc acctgctaca accatatggt ccgaatagt catccacctg ttgtgtatat 360
 catcagactg cacccatgaa tcnccangtg gagcangaat ggtctgagtg tate 414

<210> 30172
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 30172

taccgcgtcac atgtgggagc aggttggtgg actggcgatg gtgcaagtgc actagtgcga 60
 tgcacaaatc acacatgaat ccaccatccc cagttgccc ctttcaactg agctcacgta 120
 ctcccacgct agccttatcc gagttactct caacaccggg tccccatcaa tccctccaag 180
 cttccgtaac atccaagcaa tttcaacatc caaacatcct gaactatcaa aaggaagcac 240
 atacagggca gacgcacatt actctgcccc acacacaggc caataccact actattatta 300
 ctgctataac ctattaacac taccttatgc acaattgggt caccgggtgga tcaactcgaa 360
 gatttactgg aggtccctag cacataagtc tacatttgga 400

<210> 30173
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30173

agcttctctg cacaaatatt ccgtccccta aatatatgcg taaatttaaa attaaaagta 60

tgaattttat atgtatatag tttaatcatc tattcctaag ttttcaaagc accaatatta 120
gagttgattt aaaatatttc agtactaaaa gattatttac acttatattt aaaatgtcat 180
tttaacgtaa tgtgttttaa tattttaaat attatagttg taataaaaaat aattacacat 240
ttattntaag tatgttattt taatgtaata tttcttaact tatttgtggt tcattntttg 300
gtttataatg tgggttaacta ttatttgtga attttgttct tgagtcttat gtctaataaa 360
tataaaccaa ttttacatgt ttcttacaaa cattgtatct gtctcttttc ttt 413

<210> 30174
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30174

acatatcaaa tatgttcatt nttccatctt cttagacttc tgctaatagat ttcttttctt 60
atgttctgtg cttttttggt gctttagggt gtccttcatt cctactttt aactctgtca 120
aattgagatg tcaatgccat aaataagtta acagtaacag caatgtgcag ttcttcaccc 180
cataatcagt cacagtgcac ttcttgtct catgggatat tattaanaagt cagtatctta 240
aggtttgagt actttgggta tttgcaatga atctgcctaa ggtagagtag caatgggtctt 300
taagggctaa ggagatataa taatcaaggg gaaatataca aaacaatcaa gaggaactag 360
taaaaatata acaatatata caatgaacca agtaagaatc tc 402

<210> 30175
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30175

agcttctaca ttcaatttca agcttttctga tatattacgg gactcaatcg gacatccgag 60
taaaaagtta ttggagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attggtgttt gaaattgctc 180
agagcttcgg tattccattt cgagcatctc gatatttac gggactcaat cagacatccg 240
agtaaaaagt tattgtagtt tcaatttgcg canggcttcg gtattccatt tcgagcgtct 300

cgatgtatta cgggactcaa tcagacatcc gagtaanaag ttattgtcgt ttgaatttgc 360
tcagagcttc tacatttcat ntcgagcttn tcgatatatt acgggactc 409

<210> 30176
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30176

attcanacga caataacttt ttactcggat gtttgattga gtcccgtaat atatcgagac 60
gctcgaaatt gaataccgaa gcgctgagca aattcaaaca acaataactt ttactcggga 120
tgtctgattg agtcccgtaa tatatcgaaa agctcgaatg tgaatgtaga agctctgagc 180
aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg atatatcgag 240
atgctcgaaa tggaataaccg aagctctgag caaattcaaa caataataac tttttactcg 300
gatgtccgat tgagtcccgat aatatatcgg aacgctcgaa attgaatgct gaagctctga 360
gcaaattcaa acgacaataa cactttactc gcatgtctga ttgagtcccg taatatatcg 420
agacgctcga aattg 435

<210> 30177
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30177

agtttggttg tcttctcata aagatttatc ccttggttgg aattcttgac aggttgactt 60
ctttgctcct tgttatactg gttccccgaa tgattcctcc agcttgagcc ctgtgtgaaa 120
ttcctccctt gattgaatct cagcggctct cctaggttgt agccttgga tctgtggcgg 180
ttctgagctc ccatgtagtt cacctccatg taagaatcta cttgngctat tgattgcctt 240
gtttcatgtg ctccatcaca gatatggcat cccctatnt gcatgagtga agagtgaag 300
ggacttaccg cttgtaaatg ttgagggagc ttgctgaggg tc 342

<210> 30178
<211> 447

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30178

cagcaaatgt cttcacaaat aatcatcaca cagcttattt ctagcaagac tacccatcat 60
atctcccaaa accccatacc cacgaaaatc aagagggaaa gaagtccacc caaacctgaa 120
atttcgaagt cccactcgta gccacacact tcacgactcc aaaaacgccc tcctttcacg 180
atttggggca gaaatgatgg ccaaaggttg aagctttgct tggagcttca atggagaatg 240
aagaagaaga aaatggcaac gtgagggaga gagagagctg tctgaaaagt gtgggggctg 300
agtgaagaga gagaaaagct ttttggtttt aaataaaagg gtttttctct ttttctatta 360
ttttattcaa gctctgccac atgtccctat ttgagtggag cagaaggacc cactttcnct 420
ttntactgtg acccacactc agccaca 447

<210> 30179
<211> 379
<212> DNA
<213> Glycine max

<400> 30179

gtactcgaag ggggtgaccc acaactatat gtacgattca gaagtatcct catcatttta 60
ttaagtgaag cgatgatgtt cagaggcgga ctcatgaggg taccacttgt ctccatcagc 120
atccatacat tgattacaag tgtgagtata ccccgctttc acctgcctta acgatcgta 180
tgagcctcat ctgcctgact aatatgtgat gacaagagac gaccctacta tgggtcgatc 240
tcggatgcta gcaccaatth gtatgcacga ccgtattagt agtcaacgtg tcgtatcgcc 300
tacttgcaac gtagccaccc ccaaatacat atgtgcggag gagatgtcct ccgccgctga 360
cccaccacag aatgctgcc 379

<210> 30180
<211> 338
<212> DNA
<213> Glycine max

<400> 30180

tttgactgcc agaagctaca aacaattcta ttgcatagac acacacgtgc tatgtagcta 60

caatttcaat ctctggagac gcttaaacct tcagcagtat atagcaatta gatatacaaa 120
 cactatcact agactttgca tacatcgaag caccctatat aaagtaaaca aacttgctaa 180
 agcaaggaac atggatcgat ctgaattaat tcccacaata aatacccaca agagaaacag 240
 aggctcgac gtcacatcc acggccatgt gacctctctc tctctgctgc atggatatat 300
 ctttaccatg gagccggaca tcaagcatat attgccaa 338

<210> 30181
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 30181
 acctgcccc gggatctcta agtcagctgc aagctgtttt tttttcttgc taaacggcta 60
 ttgtgataaa atgttgata ataatgctct cattttctgt gtgtaattaa ggtcctccgt 120
 ccattcctcc ttcgaacgtt gacctcatat gttgaaatag gtttgccacc aaaaaaggaa 180
 accattctca acagtagcat gtcgcatatg cagaatcaat ttataaggc attactgcat 240
 aaggatctgt acgtcgcgaa tgcacgagga gaacgtaact tcttctaaat atagcaatgc 300
 tactacctaa atgctgccat caccatatac tcttacacgg tgctgaacct g 351

<210> 30182
 <211> 252
 <212> DNA
 <213> Glycine max

<400> 30182
 tgaccttaaa gccactattg agtgatttat gttgatacag cgtcattttt aacatttatt 60
 tcttaagata ctgctgatag atctatcgaa ataagatgtt tttagccttt cttttctata 120
 ttatcttaac cgtcaataat ttactctatt tattgtatca aactattttg tttgctgtta 180
 ctcagattct atcctataaa tggtattcta gttgaaattt gtacgtatta tctcaattac 240
 tcgatttttt ta 252

<210> 30183
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 30183

gcaggatgct agctttagg attatggagc acccatcaca tgtggtacta tgtggtggtc 60
cggcgatagt gcacaacaag gctttcacat tcacaaatcg cgcctaaact cccattccc 120
tgttgtccac cttcaactga actcacgtac tcccacatag tccatattgct cgtttctttc 180
aacaccgggt cccattaat tctccaagc ttccccaaca tccaggtaat acaacattca 240
aacagcacia actatcacia ccaagaagac aaggcaaagc cataaaactc ttgcaaaac 300
ac 302

<210> 30184

<211> 379

<212> DNA

<213> Glycine max

<400> 30184

cgtgggaacc agaggtgggt aatataatga agtgaccaag atcaatcaga aatcataacc 60
aaccaaaaac ataaataagt gataacaaa atgaaatcca aacagtcact attcagaacc 120
acatagaata aaaacatata agactaaagt ccaaatacta aaagataaat aatgtgctga 180
aagcaataat caaaatatca tagccaaaat acacgactta taagacacat agaattataa 240
actaaattct aacaagggtg aggtgggtgg ggaagatcga aactctgacg aatgtaaccc 300
acatcttctt caagctgtgt gaggcgaata tccattccgg caaagcgagt atccagtga 360
tcgaaacgtt caccaacat 379

<210> 30185

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30185

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tttaattgca aaaaaaata attaaaggaa tatatattag tgaaacttca tcatttagaa 120
tataacttag tttttctaac atttttctct totgtccat taaatctctt ttacatttgt 180
ctttttctct tttatattgc ctttatcttg tatectccca cttcttctct aagttaaaat 240
taagacaaga atagaaacta gaaagggtag agtttggatt tttgcacat atatgcatga 300

tgcccttatt gacatgaaat cttcattntc accatatgtc taggtcacca aacaaatctt 360
aatattggtg ttttttttta ctcgaca 388

<210> 30186
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30186

ttatcttggg ttatctggag gtgtaagaca ctggtttttt ttcattgctta tcttanatta 60
tgtataaatg gtcaatttca ataataaag tataaccttg ttcattcagg attgtctaga 120
aaacatcgat gcagttcctt catacaattt tgtgtcatat attttgatgt tatttgttat 180
acaaagatcc ctcttaagct taatggaaaa tttaactgtg caatcatatg atcaatggtg 240
ctttaattat ggtgctgaat gttgggcaat taagggctaa caagagcata agatgtggtg 300
cgcagatgaa atgttgcatt ggatgagggg tcacactaga aaagataaga gaaagaattt 360
attaagagag aaattgtgag ttgcttttat acaggatatac aggcctataa tagcttggac 420
acaagacaag aataccaata 440

<210> 30187
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30187

cacaacaaa ttttcacatt caccaattgc gcataaacct accaatccct ggtggccacc 60
ttcaactgag cttaagtact tccacgtaac ccataatctt cgttctttta acaccggggtt 120
cccaataatc cttccaaagc ttcccaacat ccaagtaatt caacatttca acaacacaaa 180
ctatcacagc caagaaaaca gggcaaaggc aaaaaactct tgccaaaaca ccaaccaaaa 240
tcacagcttt tctcacttaa agaccccagt aacaattcct tcatttcagg ttcgtaaccg 300
gttgatngac tcanatattt cactggaagt ctctagtaca taaacctac 349

<210> 30188
<211> 395

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30188

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ggtacctgga gatatgtcgc gngggtcagg agaccttgag gacgtcaagt ggggtggtat 120
tgcccaaaac caagcttgac caatcccgac ccaacccggg catagtcagt cagtgagaac 180
ctgtgatgta cctaagcagg caagctcctg gcagtcaaca gataaaagga acaaagacca 240
caaagcaagg aggcttgtgt ggtggctggc cagctgtgaa tcttgtgtga tatatgggtt 300
atggcctctg gtaatcgatt actaagggtg ggtaatcgat tacaatgctt ataaatgaag 360
acaggaggct aagatgggtct cttggtatcg attac 395

<210> 30189
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30189

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ataaattaca tatctggaaa atctctatga cttttgaacc tgccgctggc cctgtcctac 120
acttaaatta ttcttctctt aatgcctggc attttttctg gtagaaaagt gggttttgac 180
cttacttcct ttgctatctt aactggggct tagttgaaaa aggggcacat tacacattct 240
taaagttaag tgatttagnt ttctacatct gtatgtgact atgtgtggac taagggtgtt 300
gatgtactaa tgtacttctg ctgtcatcct catcctggca cataccttgt gttggtacat 360
gattatatta ctagcatctt agatgcctat aggcattgta ttcccatcaa tta 413

<210> 30190
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30190

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gaactatata tcagaatgtc attaaaaaaaa aaaaccaata caaacttcct caagactccc 120
 cttaatatgt cattcataag acttttgaat gtagcagagg cattagtgag cctaaatggc 180
 ataactagtc attcataatg tccatggtga gtcctgaaag ctattttata cctatcctca 240
 ggtttcaaca aaatctggtg ataaccagac cttaagtcca acttggagaa aaattcagct 300
 ccaaacagct catcaatcaa ttcatcaact gttggaatag gaaatgtatc ttttaaccgta 360
 atagaattca atgctctata gtcagtgcac accctccaag aaccatccct cttcttaacc 420
 aanataattg gagaagaana tgggctctta c 451

<210> 30191
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30191

actaacctag aattaaaata acttaatggc attaacctan ggaattaaaa caaaattaat 60
 ggctgagtggt aactgaaatt ggggcaacca aaagtcaccc ccaacagccc acaagtcagc 120
 caccatttgg tcttccaaaa ggctgatgcc tangttgcca attggggcct tattacaact 180
 tgaactacat cccttttagt tgattaaccc aaaacatatt tttggtcagc caactttaca 240
 aggattgggc cattatttag acaaaactaaa cactctaaaa ttgaaacaaa gtgggtgtcat 300
 ttagtcctcc tccatttggg ccatgatata actcacaacc ttggactttt ctccttgaaa 360
 cttgggcttg tattcaaata gtatggacaa c 391

<210> 30192
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30192

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 ttcaaaacag aagctattag aaaaatcaaa cgacgataac tttttacacg gatgtcccat 120
 tgagtcccat aatatatcga gacgctcgaa attgaaaaca atagcactta gcaaattcaa 180
 acgacaataa gttttgactc ggatgtccga ttgtgtcccg tagtatatcg agacgctcga 240

attgaaaaca gaaactgtga gcaatttcaa acgacaataa ctttatactc ggatgtccga 300
 ttgagtcgcg taatatatcg agtcgctcgt aaatgaaaaa agaagctttg aggaaattaa 360
 gacgacaata acttttgact cggatgtccg attgtgtccc gtagtatctc gagacgctca 420
 naattcaaaa c 431

<210> 30193
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30193

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 aataataatc aaagtgggtc aaagaacaga aaataaaaaat tctatcatgg gtctctgtgg 120
 gcaaaagggt catcatgtgg tgcagaaagg gcataatcca tggcttgggc atcatcctca 180
 tcctcagata gctctagcac aggcgtagcc accgtcgatg cttgcaaaga agacaactcc 240
 agcacagggt tggtcactgg taatgcttgt ggagtcattc ctagcgaatc cttcacagt 300
 tccttctgag cagttggatc aatctcttgg atgtctggct ctttaataact angtaacct 360
 ctacaacatc tggatcatcc ttctgagtag cttct 395

<210> 30194
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30194

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 gcttgatggg tgagatattt gatgcttgcg ttggaccctt ggaagaagat tgagaaaacc 120
 gatgttggta gaagatttct agaagctatg taccatgggt gcacctacat tntgatttgc 180
 ttctatattt ttgttttggc cgatgtattt ttgacatggt tagctatatt ccaatttttc 240
 agattttatt ctcatctcct ttaatgttga tgtatatctt ctccaacttc cagcttgcgt 300
 gggagggggg tattagagat atagattagt ttagttagtt acaagttagt tactagtatc 360
 aattatataa ggtacaatgt atttatgtaa tgagagagtt ttgctcattt gagcattact 420

ccaatattaa ttagttctac cttttcc

447

<210> 30195
<211> 404
<212> DNA
<213> Glycine max

<400> 30195

tctgtttatc ataattgttc ttcagaatgg agaacttcag aacaaactca aacctatcat 60
gtcaagtaca actagcacac tttcatgttt tgcaagaagt tgtcacagag ttaaaggcct 120
tacttcaagc aactattttc ttgggatatt ttagacttgg aggaagctat taaagttaga 180
aaaaaaagaa gacctagtgtg tcataatggc tacttttggtc tgtgggtcct atgaattgat 240
agagcatagg tgcaaaactt gagagagaag gtaggagata acctacactg tgtagaaacc 300
atattcatct tctttccgta ctacatatgt gctatgtagc ttagaatggg tgtggcaaga 360
gtgcatatag ctgagagctt taaagaagat tcaccctaata tagt 404

<210> 30196
<211> 404
<212> DNA
<213> Glycine max

<400> 30196

ttcgtcaccg cagcaacact gtagaaacct tactgcttcc tttatcgaca cctactgggt 60
cttttccgac taccgacttc ccctttatct cagttagtaa ttgtttaatt tcaactgaat 120
gtggctttta attgaaacaa ttaacacaga ggtagcagag aagaagaaga caaatttggg 180
tttatttgca ccgcctagta gtagcagaca cagagaagaa gataaatttg cgtttgtctt 240
tgaaagggtta aatattgtat gttatataga agtactaaca ttgtgaaaat ggggtcccata 300
tttttcaagt ttatctaata tctcatatgg tgaaattata atattgtatc atactgatca 360
cttcaataaa tgtcattata aaaaatatgt actttataat atat 404

<210> 30197
<211> 395
<212> DNA
<213> Glycine max

<400> 30197

agcttctata gttagtcaca tcataataacc atttgctttg ttgaacgtta ttgtaggaac 60
 caaatcaacc aatggtgttc aagcaaaaga aaatgttagt tgagcagatt atatgcagca 120
 ggcacatcgc ctcatTTTtac cgcctactga agacaataaa agtgttacaa ggaggaatga 180
 aagatggaag aagccattac caaagccaaa ttaaaagcaa actttggcat tggaaccatt 240
 attaggacca ttaggggtgaa tttttgacag cagcaacaaa gtttatgcca aatcttatag 300
 tatcagagtg gaagaatctc tggccttaag atggtgtatt gaagtcatgt aagaaaggac 360
 caaactgca ttacacatat tgtgatggca ttatc 395

<210> 30198
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 30198

ttagccatga tatcttgatt ggaacataat tttttcttct tttgcttggtg tgctctaagc 60
 acaagaacta aatcttaata atgaagaagt atgttaatct taacttattt accttggaga 120
 atttgaattt tcttgaaata caacaaatta tactagaaga ggggttgaat aatgtgttag 180
 tcaaaatata aaatattttg gaagtgaag atgttataat agacaagttt atagaaccat 240
 tgtctagtga caaaagggtga actatcatcc aatgagatgt aaaactttgt ctttcagtaa 300
 aaatcttggtg tgtaagggtg gacaataatg gacaatgaaa tattttataa gttaatgaaa 360
 aacagtaaaa atactttggt ttgtactagt tcactcaacc taagttatgt ccaattttcc 420
 tttaaccaact a 431

<210> 30199
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30199

agcttgtatg atgtcgagcg tactgatgcg taccatgaga tgtctgcggg ggtttaaccc 60
 acatgggagc tgtcataccc taatttcgtc cggggacctt tgcttgatga catgcgacct 120
 ttctttggtc cttgtgaggt gcttggcatc catcattagg caatntgtga aattccagga 180
 cataccgaan aacaaaaaaa atattgatgc acaatccgta agtttccgtg acacccccgga 240

aatcaaatgg aagcatcggt gcataattaa gtgagggtcc gtaacattcc gtaagtcaaa 300
 aggggggatga ttatgtaatc cgcaagggtc cgtaacatta cggaaagaaa acaagtatcg 360
 ttacgaaatt cgtaagtttc c 381

<210> 30200
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30200

tattcaattg cttcagattg ttgcacagaa tgtgtttatg tctgtgtggt ggtcgacaga 60
 ggagcataaa ccacaaagtc tggcgacagg tgcaaatttt tgattcacgg ccagttgggt 120
 taccagggtta accaaggcat ctagtttacc ttcaagcttc ttagtctcgg ctaatggaga 180
 tgaattcgtg gctacttcat gcactcctct aatgacaata acatcacttc tagtactaaa 240
 ttgttgggag ttggaagcca tcttctgatg gaagcttgct tgtgggggctt ctatggaggc 300
 tggatctttg agcttcaatg gggtccttta atgggtgattt tccaccatgg agatgcagtg 360
 gaagacaaaag gagaagagggt gagaggaggc gccatccact anggaataag ccatggaaga 420
 aggagcttca ccaccaaga 439

<210> 30201
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 30201

agcttctttg agcaatgaca aacaaattcc acacaaacaa cataaccttc tagagacaca 60
 ttaaagagag tcatcactag atctctctac ctctatcttt agttaaagca aattgttcct 120
 atgttagata tatttggaca acatagaggc agctatcttt ccttacctag aaaaaaagaa 180
 aaaagatgaa gtttaaacta cagataaacc acatgtctaa aattagtttt tagcataatt 240
 taaaatagaa aactatatat tattccgatt gtaagcaaaa tgagtcttta gagcctcaag 300
 gcactacaac acaggcacao taaatttaac ataaaaattc acaataaaaa ttggcttcaa 360
 agccaagaaa gaacaaagga aaaaaaagaa caaagtttca gcaatcatatc ttggggagtat 420

<210> 30202
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30202

gagattataa taggattgta tggttnttag gtattgttta ctctcaatac catatgcagt 60
 ttctcaagga ggggtggtga gtttcattct gctaattggt cttgcaatga tgttttggta 120
 cacgngtta cttctacaga ggtgtatgaa caagcatcca ctaatcaaat cttaccctga 180
 cataggtgag gttgcatttg ggctaagagg aagagctatg atctctacat tcatatacat 240
 agaattgttt ttagtggccg ttgagcttct gatattggaa ggcgacaatc tagannaatt 300
 gtttcctcat atgaacttca naattggtag ccttagaatt gaaggtaaaa gtggttttgt 360
 ggtgctagct gctntgggtca tactaccaac aacattgggt agaagttngg agctttggct 420
 atgtttctc 429

<210> 30203
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30203

agcttttttag ctttaagaac tttttccttt ntacatgccc aactctttga gtgacatttg 60
 tattgattat tgcactcttag tctttatctt ttcatatgta catcatgcat catcatgtag 120
 aggtaagaag attgtttcta aagttaaaaa aattntcaat gcataaaact ctctgttnta 180
 atcaattaca aggctaatcg taatcaatta cacaagtgtt tgtagcttgc agagatatcc 240
 tagtttcagt ttaatcgatt actagttaac cataattgat tacataaatt agttgagatc 300
 atgtttgatt tttcacgagt ctctgtttta atcgattact agatgatcat aatcgattac 360
 tacattctta aagggtgtcc cagaagtgat ngagaactct ttaatcgatt acatcaa 417

<210> 30204
 <211> 391
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30204

ttatcnnnttt atattggtat accatgctac agccgctccg gccaaagctgt cttgaaagaa 60
atggaccaat aacttttctgt ccgcagaata cgccctcatc tttcggcaat acattcgaag 120
atgccctttc ggacatgtcg tcccttttgta cttatcaaag tctggtactt tgaacttagg 180
agggatgacg atgttgggca cgagacataa gtttgctaga tccgagaatg ggtaatttcc 240
gaggcccttt accgctctca gcctctcctt aagcgcatca atctttccct tatectctgc 300
gaagggaaca tattcgatta cgggtgcggg tgaagatggg acgtggcgga ctatgtntgg 360
ttgngtagt tcatgnggg atggatcttt g 391

<210> 30205

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30205

tgaaggata atattccggg taagtttttg ctattaaatg tcgcgtacct ggaactattg 60
gaaggatgtc ttatatatgg cataagagca attttggtc aagtaaagggt gtgaagttga 120
gtctaggttt gtaaattaag aaaattaaat aatatactcg accaaatgca ggaaatatta 180
cccgtattgt agaaaaaag ttccttaaaa aaagtccgtt cactatagta cgtacatata 240
antttgatat atttaattta gtgaatttct ctggacttga actcataact agccagatga 300
agtagataat ttttttttan atcaaattca caataaaaca agaaaaatct ctccatgact 360
tgc 363

<210> 30206

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30206

tagcttgtat gttagagtag taccacagga cgttgataaa acaaaatact aaagacacat 60
aattgggaca ttttactcaa ctatctttga taactcttcc tatcccgagg atatgataat 120

ggagcatctc aataacaaat aataatggca tatgatagac ataagtgcac gcatgctaata 180
aatttaataa tttcatgttt taatgtgcac attgataatt gtgtgattag taaaatcaga 240
tacagttgta aactttcaca ctctgactca tgagcaccct cattcccact atttaattga 300
tagatcccct ctaacaaact gtctataact atntgtcact tcccttctat cttanatgag 360
atgggtcatc gtctcccccc ccccccttca tgctctagag gatacaa 407

<210> 30207
<211> 417
<212> DNA
<213> Glycine max

<400> 30207

gcttgaagaa gtttgacttt actatcctaa ctcccttgag tggcattcgt attgggttggt 60
atcttgtatg ttgcatctta gtacatatga tatcgtattg catcatgtat catcatgggt 120
agtgtaaaga aaagtgttct caagaggcaa aaaatctttg ttttaatcga ttatagggttc 180
attgtaattg attacgacat gttgtctaaa gcttgaagag ttgagtctca tatcggttta 240
atcgattaca ttggtgtttg agacaatgat tgatttattc aagagtctct actttaatcg 300
attacgaagc ggattaatcg attacttctc gctcgtctag tagttcaaaa gtgaacaaaa 360
acactttaat cgattactta gagcatctaa tcgattacat tgttcttgag ttatttt 417

<210> 30208
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30208

gagagatgaa ggaccacgat ccagacagtt cgagagattt gcggagcgaa gatttgcaga 60
gaccagagcg cgaacaggaa gccgccctga gagccagaga tgaggctgag agcgactgag 120
aggccctaga cgcggaagag acatccccac aactagtacg acggcaaacc gtcaacctct 180
acactcccgg ttgcaaagga agcagactag ctatggaaag ccaaattctc tgctggatct 240
cccttgcaga tactngatgg aaatagcagc atatctagac aacgacaagc gcatgatcac 300
tgagctatca gaacagcata ccgccatgct actgcctaga ccacgtagat gcatgggctg 360

cgaagattat acaccagtgc aaaccg

386

<210> 30209
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30209

cttctacaga atgatgaaat ggattcggct cttttatnat gttcttatgc agntttgatc 60
tgcagaatgt tttgctattn tgggtgttgat acccacgagg aagttgttgg ttttgttgag 120
gtagagtttg aagtgaagac caaagttttg aggcagatgg tgtacatcaa gtctgaagaa 180
gctgggttta atggattgag aatagtagaa aagatcaaac agaacaagaa gatacagaaa 240
ataagcccct aagcctcttt gagcagatga tgtagcaaa gatgcatgag ctcatgagga 300
tacatgaaga agactatgct aagcttaagg agtgctctga gtatattgta gaagcaagct 360
tcatgatgaa tcaagattga ttcanggagt tttgatgatg acaaagatga tngacataag 420
ctcacaagta aagatcactt catgat 446

<210> 30210
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30210

tgaaatcgaa ataaggatat ttgcgactca atctaaaaaa taagggagag ntgtctgtta 60
cgcgatgact ggcccgggac ctaaacaacc gaggcacaac caggtcttta gctccacaat 120
gcaccagggg gaatcatatg caacaatatc cgacgccatg gaatgaccaa gacaaactct 180
aaccaccaa acaccttttc taaatgtaca aagaccaaac tacccaaccc tgctctcat 240
agctacgcta ccaggataac taatacacta gaaaccaaag acaacgaaaa caagcccaag 300
tacgaaaaag ggaccttgca tagaacgaac aatgcaccaa taaacccatc cacgaacgaa 360
atgatataat gaaaacacaa gaaaccaccc attcccaata cgaagcaagg aaacaagcac 420
ataatctaac gagaaatacc aaaagcaacg 450

<210> 30211

<211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30211

gaacctaact atttaagaat ttcattataa anaannnnnn nnngaggaat gatctctaac 60
 acaanaannn gnnnggaggn aagnaacgaa gcagagcacc ttgtttattc tctgcaacta 120
 cctgaaggat tttttgtgat gacagtatac aatggtaccg acttgacttt gagtgccatg 180
 gaatgataaa gatccaactt tgtattcacg gtggaataaa tgggtgtaat gagaaaaaat 240
 tgattgggtt gaacaactgt agttttattgt tgagatactg tcaatggctc atggatattc 300
 ttgatgcttg gctccattgg ggcctcaggg gaagataata gatgaagctg ggaaagtgct 360
 cactatggag ctaaataata tgcctagttt tgaacacgcg atcaatctgc tataggttat 420
 ttgttgcaac tgagaaagag aaatgtggtg acaaggttta ccttagatca ctactactgc 480
 atagtattgg 490

<210> 30212
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30212

atacaacgga gtagtaagaa acagtaaaca cagtgaaaaa gcacgagaga tanantntna 60
 annannntnn nnnnnnannn cnaannnnnn nngaaggaag gactgagtcg tagtanntnc 120
 gncannnnch nnaannnnnaa nnnannnnnaa nggnnnagaa nnaaaaagaa naaaaaaaag 180
 agaaaganga aantatttat agattatgag taaagaaaag aagaagagga aggaggagga 240
 gagtatagaa tagaaaaaat gaaaaaatga gaagaganga taaaagaaaa ggaaatgaag 300
 gaatagaaag aaaaaaagag aaggagagaa gggataaaag aaagaaagaa agaagggagg 360
 agagaaaaga atgaaaaagg aaaaaaagga aaaaaaaga aaaaaaaaag aaaaaaaaag 420
 aaaggaagaa agagagaaaa aaaaagagag aaaagtaaag agaaaaagaa agaaaaagaa 480
 aaaaaagaaa agaggaaaaa aagaaagagg aaaagagaag agaaaaaaa aaaagaaaag 540
 ataaaaagaa agaagaaaaa aaaaaa 566

<210> 30213
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30213

agcttatgac aatttgaaat tctcgagagc ttctgaagat taattntgag cgtctcgata 60
 tattataagt cttaatcgga cctacgtgtg ataagttatg aaccatttga atttttgaga 120
 gattccggtg gtttaatttcg agcgtctcga tatattatgc gcctgaattt gacttgcctg 180
 tgaaagggtta tgaccatttg aatntctcaa gagcttccgt tattcaattt cgagcttctc 240
 tatatgtgat ggcgctaaat tggacatccg ggataaaagt tatgaccatt tgaatttctc 300
 anaaggttcg gtagttcaat ttcgagcatc tcgatataatt attcgccctga atctgacatc 360
 cgtgtaaaaa gttatgacta ttttagttta tcgggagctt ccgttttc 408

<210> 30214
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30214

gtgtatggac catatcgtag ccaattgtgc tcatcgataa tggntccagt ttaaacgtga 60
 tgcctaagag cactttggag atattacat tcaatgcttc ccacctaaag ccgatttcaa 120
 tgatggatcg tgccttctac agaaccgcc gagaagttaa gggagatatc gatctcccac 180
 tacagatagg cctcacacc tgtcagggtta ccttccaaat aatggatatt aacccccctt 240
 acaactgtct gttgaggcgt ccgtggatcc tctcagtggg agttgttcac tctacactcc 300
 accaaatggt gaaatt 316

<210> 30215
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 30215

ttgtgtagga tggatctagg atatcggatt aaatactcat gcaaataaac ctttcgtctt 60

caacactaaa ttagggaaaa ctttctattc atcttgccca attaagaaga aacctccaat 120
aaccgaccaa tgatgatagg aggaaaaaga gtgtggcctt ggcagaaaca tcgaacacaa 180
ctttactcac gatggagtga gtccgaccog tgtcatgatg tgaacaaggc cgatgtgggt 240
gagatatgga tagatgccca tgggggtgtg gcttggattg ggttgggtgg ggcattttga 300
tg 302

<210> 30216
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30216

aaaaccatta aataaaagct gagtgacaaa atattaaaaa tactttaatt tatttaccaa 60
tgcttttctt attgaaatta gtagaaagca ctcccatat gtcagtgact tcaaaaaaat 120
ggaaccacat aaagaaaatg agagtaattt tggatcttta tctacctata ccaattggat 180
tgacattatt caataattta aagttactaa aaaggttcta ttcaagacct ttntccactt 240
caatagactt ccttggtata aatataagaa aaataactga tttacatagt cgacatcggt 300
taattatatt aatcttatta aagagtaatt ttntcaact attctgtatg gaacttntat 360
tatgtataca aaaatcatta aactaatact tc 392

<210> 30217
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30217

agcttttatt ctaattgcta agcgacagct tattcgtggc taagcgtgac ctattatcgc 60
caagcacaat tccttatggc cataattgag gtccatgacg ctaagtgccg gtcatggcag 120
ctaagcgaga ttcattgtgg taatatgagt gctaagcgag tccctctcat ctaagcgcat 180
gctcctctgt acttaagatg catcatttta gctaagctgg ccagagcctg nottagcgac 240
agttgcaact tttctaactt gtagaccttg ctaagcggaa gaatcaatgc gctaagctaa 300
gccttttctc ccanaaaaaa aactt 325

<210> 30218
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30218

agcttgngtt gngctaata gngaaangan ngaccaaagg gaagacaaga gccatatcta 60
 cggtaaattg cgtgttgacg ggtcaaatat tgattcggcg gagttctagt tgtaaaacca 120
 gttcatgaaa gtttacatta atgttataga cttgtgtgag atgagagttt gctccaaaat 180
 taccctattc tcattttcac ttctcaaacc ttgaaatcca ctagattgac gggttttata 240
 tacctacatt ttgagttgct ttggctctgaa gcttgtctct gggtttacata tgatttatac 300
 atgactaacg acttgttagga tccaatctac gaaaatatgg atgat 345

<210> 30219
 <211> 98
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30219

tcatgcgtag ctaccatgcg tttaagggca ccaataactg ccttaccata atacgcatcg 60
 ccatgcactc atctgagtac tgatgtactc attaagcn 98

<210> 30220
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 30220

cactggccat cgtttacaac gtcttgactg ggataaccct gtcattacac cgcttaatcg 60
 ccttgttgca catacccctt tcaccagctg gcgtaataac gaagaagctc gcaccaatca 120
 cccttcccaa catgtgcgca ttctgaatgg ctaatggcgc ctgatgagat atcttctcct 180
 tgctcatctg tgctggattt cacaccgcat atggagcact ctactacta tctgtcttga 240
 tgccgcatat ttgatccaga ccggacactc ccggacatcc tgtgacgcga atcctgtggg 300
 gaagcaggca tttaaattgc gatattgtga gcgtatataa gattaaatat accgtattct 360

atttgtgaga tatgaaggat aatg

384

<210> 30221

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30221

gtgcngatat gagaggtgag cgtgtctatn tatkataact ctgcactgga ccgatgtgag 60
ctatgcaacg accataggag aaatgagtgc gagaaatgag acgatacatt tactgccgac 120
tatgctatgc gctacactga gtacaagact ggaatgggta tgaccatatg caatgtcgat 180
cggaccgttc tgttgtcact ttcaatcgtc tgtagttatg aggcgctcta atatggtcac 240
actggatata tgttgtgacc atctcaatag atccattatg ccggagcacc atgaacgata 300
cacatgatat aataatactg cgaatctgac gcaactctgca taaggtaaga ctcattttaga 360
tatatgagag cgcccacatg actatgtaca gcgattgatt cagagat 407

<210> 30222

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30222

aggcggttcat ttctctgnac acancncann natnatcgtn cccgggatac actagagngg 60
ancngcatgc atgcatgcaa actttattgt gtttcaacac ccagcgncaa agggggaggt 120
cctataattg catatacttc ctccccccac gaacctagca ttttccgcac aaaccatcta 180
tggaaaaaag atcatattaa actacaatcg ctaacacaac aatgggtgtga attgattcac 240
ataacacggc gattcgcgaa agttgcagag ttctggaaaa cctgtataaa cagatcatg 300
tgcgttagaa cggcacacac gtgtatcatg aagtttaa atccttgtat acgcacttct 360
gatataggcc catgatgaca agcttatttg gcatcagttc tatatgaact ggtggaagaa 420
atgcgtgctc attgcaaaga agcggcacta ttattgcgtc tgtctattgc cagctgaaca 480
tattgggttaa gatacg 496

<210> 30223

<211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30223

cgcatgctat ctttcttgtg ccatacctgc acacgcgaac atttggaag ttagtttttg 60
 tgggacatat actcttaagc agaaatggca tataacctcc tcccataaat acaaacaatca 120
 atgtatatat agagcaagct tatgtgcatg tttccttacg aacgttcact tgcggaagat. 180
 atcctattaa ccgaaaaaat gcacccatat acaatcaagg cagctntgtt agctagatta 240
 tttacacgta cttccaaggt gtatttggtta ctacatcaca cacatctcct tggctaaatt 300
 cacatacatg catactccaa gcatttgggg taccaaaaat tgcacatgtg cacatcttgg 360
 tattttcta acctatacat acacgaactt catgatgaat cttgactatc tacacaata 419

<210> 30224
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30224

tttctcgtc tccaccctat gcanaccgc cacgtgccgc taatagcgtg tctcgtcaa 60
 cgtaccggca aggaattaca accatatatg agaccacccg aagaaactac ctctccgaat 120
 ccaaacttcc ttcgcttgta gtactgccct aattcccaa attcgggtct gtgctatttc 180
 ttttttatta ttgtactttc ttctcagatc ccggaggcct cttccctccc tgtctcaaga 240
 gaattcccc gattttctcg agaaagtga acggaattat gagctttcag gacatctaag 300
 ccgggcgccc cttcggttcg aggcgcgggt ngatgaatgg gaagcaagac cccacgcaag 360

<210> 30225
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30225

agctttgttt aatttggttt gacaataact ntatacacgg atgtccggtt gaggccgta 60
 atatatcgag acgcctcaaa tttagatccg aagctctgag aaaaattgaa ttgacaataa 120

ctttatacac ggatgtccag ttgagtcccg taatatatcg agacgctgca nattgaaaac 180
 ggaagctcgt atgaaattca caccgacaata actntntact cggatgttcg attgaatcgg 240
 gtaatatatc gagacgctca aaattgagac tagaagctct gagcaaattg atatgacaat 300
 aactctatac acggatgtcc ggttgagtcc cgtaatatat cgagacgctc ccaattgaaa 360
 cggagactct tatgaattca aacgacaata actttttact cggatgccccg acagagtgtc 420
 gtaattttatc 430

<210> 30226
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30226

ccccaccan ngggaattca gtcangacat cgnaataaac atcgacccgg aactttgatg 60
 acctgaggca tgcaagctta cttctttntt agtaatgacc cactanccta gagggaatat 120
 acttaatggc cttaacccta ggcattgaaa aaaactttat ggctgagtgt aacttanact 180
 tgggtgaccc aaaagcacc ccaacagccc acaagtcagc caccatttgg tctccccaaa 240
 agctgatgcc taagttgcc attggcccct tattacaact tgaacttaac ctaactaaaa 300
 gccgcttta ttgattaacc caaaacatat ttttggtcag ccaactttac aaagattggg 360
 cccatatttt aaacaactaa caccttctaa aattgagaca acatgagtaa ttagatcctc 420
 tccatttggc cctaaaaaac tacaaccttg actttttctc tagatactgg gctggattca 480
 aatagttgga caccg 495

<210> 30227
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30227

agcttgattg ctttctttgg ctgaccctaa tatatgttac tcaaccatga aacaagtttt 60
 gttggataag catgggcctt gaaccaagta atttgatgca actatatcga gcanagagaa 120
 aagtcatgaa atactagagg ggtcatgcat atcctataat gacttgctgc ttggctctat 180

cagtaataga aacaatcctt ggatatagtg aagatagctg taaaccaagt ttgatttgat 240
 cccaattta aaggatattc tttgcttgat gatataaaaa aagattgtga aggggtgatcc 300
 catggtcaga atgatggttg catttaaatg tcttatgggg aatctattat ttatgtgctc 360
 ttgtgcaaca gggttgtccc tttgtattga gt 392

<210> 30228
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30228

agggaggtga aactagtanc nctgcgacac anatacaca gcttatcaca tgtanctggt 60
 ggcattgacat tngaaggga gaagcatttg tggtttggag tacttngggc cactatgtga 120
 tgccatggca aagtcttggg gtggccctg ccctcaactg gcattcttctt ggcagcaaag 180
 tcaggtaatt gttggagaga tgtggtgact atgccctgaa ccctccactg tatgtcttga 240
 ctcatggcct cattcaaatt gtgacaacag gcccataag gtccgattca tgaacaccct 300
 ttataaaacc tagctggagt ttgtcattgt caatcacttt attactctat gaagagttaa 360
 aaatcagcgc ttctctatgt atcttcttag taagtttcct ttcttgcaat ttgcatagga 420
 cctctatttg tggcgggccg tctctctttt gcttatatgc ttg 463

<210> 30229
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30229

caattatgaa aattaatttt tgtgcgagat ttaatgttgt cacatgagct atacttattg 60
 gataaagtat ataagtatac tactaattac tcatacaaca tctaaattaa taaaaaagat 120
 tgcagtgcct atataataat tattagaaag atatatnaag agattaataa aaagatgtat 180
 taggttctat tgatagaggt atactaataa aaaaatacaa cgaaattcat tcagcatcgc 240
 tatttttttt ttaaatttag aagtatgaaa tgaaattaat ctcttttgca ttatacagta 300
 gaaatatata aaaaataaaa taattatttt atttatgatg gctcattcta gtgtatttca 360

cttaaagttt ctccattgaa atttctctta ttgattctgg atc

403

<210> 30230

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30230

gtgctgcgtc gtantctaca cnaaattatc taagctttga gatactangg atntgatgaa 60
gaaattgacc ttatctcatt ttttgaatga gggagcgaca atcggatgtg gatttttagta 120
tgttgatgtg agtcctttgc tacgtggttg gggatcaatg atgaatgatt tttatgaatt 180
ccgacctcga gacattagcc attgattggt aatcatgtcg tcctcatacc aatgtgtgtg 240
gaggagaaat cctatattgg tgaatttcac ccttaggtcg ggagtatgta ggtttactat 300
attctctttt aggtaatgtt acttgtcaac tgcattatat acttgcccta agcctttgta 360
gcaaaatgtg gcaaatgcac tgatattatg caagtcctat ggtacaatct ttaatatcca 420
tcggacttga tgatttggtc ccttcccaat ttatgacgag gtttggcatc ttggcgagac 480
ttggtgaan 489

<210> 30231

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30231

aggtcttctg tcnctcgaca tncnannanc natnatagna nngnggacnc tccggaggcg 60
aaccgcgagg cagcgagccn ggcttttttt cttttttttc aagccaaaac tgaggggggat 120
ggggccctat acctttgaca cactcaccga cacctaagtt ggtaaccaat tatggcacgg 180
ggtgaaaata actgggttca atctctatat cctatatttc ctccataacc tacggggtgt 240
aacatgaccc aggatttgga attgaacttg tttgaaactt aatctaactc gcaaaatgtg 300
tctctatccg ctaagccttg gatggaaaac cctgcactcg gtattcaaat attttctaaa 360
gataatttgt ttgcagtgga cctcaataat ttattacttg gactttaccc ctttatccga 420
acttttttat taaataaaac tcatactttt attaaattat gcactatata gccg 474

<210> 30232
 <211> 591
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30232

cagccccgat ggacatttgc ccaggttacn ngncnacnna tcagngcngn aannnanattg 60
 ctatggnnac gcgcgcngga gcgcgactcn ctagtacgag ccctggacac gcgataggcc 120
 antgccanan gcanttgnaa ttttntnatg ntatancagn nacaccacgc cctnncgngc 180
 gggggacnac gtggtagttg taatactact actcctctaa ttaattgaac attcttggag 240
 ttcgattcaa tttagaaata aaaatctacc aaatagagaa atgagatcta tatatttaac 300
 tataacttttc agaaaatata tgcactctaa taggcaccaa agactatatg ctataccact 360
 cctaaatcta caattaaagc tacgtagaga agctaataaa aaaactttat attcaataga 420
 atgcgaatct tacattaaat aatcatacta atggatgaca attatacatg tgtcattata 480
 taagatctta cgaatttaaa atcacctcaa tatatatccc gagaagtcac atctacaata 540
 tccccgggta ttaaagttac ctattggggc tgattatacc cattctatcc g 591

<210> 30233
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30233

agctttatct actttgatgg aatgaatcca tatggcaatn taagcactta acacaattca 60
 tggccaattc tactagtaat ntacaaatth tccttccttg gttgtgcatg cagtgaaaat 120
 acatgatgtt gtcgatgatg atatcangcc caagacagcc aggaaatgac attgatgttt 180
 atctaagtcc gttgattgaa ggcctgagaa agctgtggga cgaggggggtt ctagtgtntg 240
 atgggtttca gaatgagact tttctaattgc atgcaatgct gttttgtaca attaattgact 300
 ttccagcata taggaatttg agcagttaca gtgttaaggg tcatcatgca tgccccatct 360
 gtgaagaaga cacaagctac atacaactga nacat 395

<210> 30234
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30234

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agcttcatta agtttcaaga tngattcaaa gagtggtgag gatatcaaag aagatgacta 60
ancgctcata agtcaggaac acttcatgat aacacagctg atgatctcaa gaatcaaaga 120
atgagtttaa gattgaatca tgtacacttc aaggatcaag aggaaagttg aattcaagaa 180
tcaagtttca agattcaagt tccaagaatc aagatcaaga ttcattgactc acgattcagg 240
aattaagaga agactcaatc gagataagtt ttaaaaagtt gtttttaaaa aataaactct 300
gaatagcaca tgaatgtttc tcaaacctt ttaccaaaga gtttttactc tctggaaatt 360
gattaccaga ttattgtaat cgattaccag tagtaaaatg attctcaaag aacattcaaa 420
ct 422

```

<210> 30235
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 30235

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atgctctatg tgcgcactgt gctatcaata ctaaattcta gtagtgcctt tgctcgatc 60
acgcacatgc gtgctaagtt aggagcattc aacattgggg aatagtttga tcctt 115

```

<210> 30236
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30236

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agcttgactc gctcatatta ncatgannat ctactatgcg agtaatttat tatctatttt 60
ccatctgcca acactcatga atagatatcc ttacgacccc actaatcctt tatatgtttg 120
acttggaag caatttgga cgccatttcc agtttggtcg aaagattgaa gacttgatgt 180
tcaatgatgc acctgaagag ggttgtgtgt ataattgctt ataattcctt atagtttctt 240
gctatggcac atctagtcac gtctagaatt ctatttatga aacaatctgg ttgcaatgtg 300

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tattagttac tctggttgaa atcacgaggt tctagatata gatggcggaa gagagata 358

<210> 30237
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30237

agctttttta taattatcat cctctgaaat cagntcagag tatgcaagct gccaatacca 60
tcacaaaaac taccactcac cacaatcaca tagtgtatac aaaaaaatta tagaatataa 120
ccgctatcaa tctttcccaa tgtgttacta gataaaatta ttagcatggt tagattacac 180
gcaagaatca attctaccct ataaaataat ggtgatacca tggaaaagta taagcaacta 240
tttgtggttt tgccttcacc atgaaaaag tagctgttcc tagtaaagga cagtaggata 300
acattaacat cagaaaggac caaagtcatt agcataggac caatattagc atcaagtttc 360
cccttgatt tcatacacac agagagctgt aggtcttatt tgggtccgcat caccctttgg 420
ga 422

<210> 30238
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30238

gctataacac tcaactcaact attagtatga aagaaataan tcttgctgat atcncgaaat 60
actcatgatt gtgtatgtga ctntaaaagg tcatgtgtgt gtcagtcact ttaaaaggtt 120
atatattttt ttttatttta atgtggatca ttcagataat agacacatgc accaagcatg 180
aacgaaacta gaaaaatatg ttaagggggc aaaattttta cacattatan acaagattaa 240
aaataactaa attttaatta tttattatct aaaatgtagt ttaataaata tgaaatatta 300
aataacatat aaaagtggct atnattacct ttaatgcaag attatacgga aattgttgaa 360
atgtgtggtg taggcacatg gtggaataga tcaaaaccat tggttttctc taaaatgtgt 420
gtttggttct acgatggaga attattttcca atttatatt 459

<210> 30239
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30239

tcttctttnc ttaagtggta tccggcatta cattgagact cgatccattg tcgataaaca 60
 cctttgcgac aacatgggtcc atacactgta ccgacacatg aagagccttg ttgtgtcctc 120
 tcccctctac gggaatctct tcttcacag acgcgatata attgatgggtg gttatatgat 180
 taatgatgcc ttcaaaaccc tccattgaga tatcgtgcgc tacatgggca tcattgagga 240
 cgtttatcaa cagcgtacga tgaggctcgg agtttatgag cagttcaggc aacgacatcc 300
 ttgctggagt ttattcagt tgctcgacta ccttaaactc gctgtgttgg atgacgcgaa 360
 agaactcatg ggctcttcc a 381

<210> 30240
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30240

cgggccctcc ccnnnnnnnn nngnrtggaa agtcangnan cgnncnctn gatnaatnng 60
 agcgnagctc ccgtggagcc tcttgagtcg atgtgcacgc atgtttgttt cattaanagg 120
 cgtctcgac actcgggagg tgggtgattaa gatcacaacg gccaaatcat ggccgctcgt 180
 atagtgaaga tgcatacctt atagcgagat gattctgcgg taatcgaaga ctcgatca 240
 tcctatcgca gtccttctt gatactaatt ctaagagcat cacatagaaa gcttctccat 300
 aatcatatct gagagttctt tgacaagcga tctcaggaag ctattttgcg atgctagagc 360
 cttatcgatc ctcacacctc tatcaagtat atgaactacc gctggaatta ttctcggaaa 420
 tgaataacga caccatgtat ctaccgtcct acatcatcac gtatgcaata ctatctgtat 480
 attctcgcgg tgtacatcgc acacacactc tccgcatact gtggaccg 528

<210> 30241
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30241

attgtgcaag caatcaatga agcaaaacac accaaaagat tatgatgatg gatgactcaa 60
 atgctcacia atgtgaactt atcagtgttc aagtgagcgt ttcaatctat catgacatgt 120
 agaggcaaaa caaagatttc agatcgaga atgtcatgag actattatct ccagaacaat 180
 taccatttc ttgagcatat gctacagttc agagaaaaat atgcatagtt gtacatacaa 240
 acanaattga cctaaaatat taaactagag acccaacaga actaacaat ttaacacgaa 300
 cgaaactatc agaactagca aaacgcaaac caatgacact ccccccccc ccatacttaa 360
 tacacatggc ctaat 375

<210> 30242
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30242

tttcatcaat tcacaaacaa atctttgagt gatgcacttg aaatatttag aggattgttg 60
 aganagatgc ctactcatgg tttttttgaa ccaatacaac tcaacatatt tatagatgag 120
 ttaagaccgc aatctaagta gcttttagat gcttcagctg gnggtaagat caaaatgaag 180
 acccctgagg aagcaatgaa nttaattgaa aacatgggtg ctagtgatga tgccattntg 240
 agagaccgag cccacatctc aaccaaaaat agtttattgg agcttacatc acaagacgct 300
 ttgttggcac anaacaagtt gttatctaag caactggagg cactaacaga anaacttagt 360
 aagttgcaac tcagcttcat tttgcacaaa cttcacattt tt 402

<210> 30243
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30243

caggtagtn cttgaaantc gtcgacacna nacatatact cnagcttcta tatcagctga 60
 agccgtggta tcaataagcg acaagttgag tcttattcan attatgagag ngatatctgt 120

ttatcttaag tgagaggaga ttctcccgag atatcttgag tgattgcaag aacacccttg 180
gctgtatgca aggactttca caacctttgt gagttgccct cacttgaag agtgattgtt 240
ttcctcgctt tcgatcatca cgccttggtc ttccagacca caattccaga aaatccacct 300
cttgccagaa ttatctcggg gccataactc ccattttacg cactcaaatt aagtgattct 360
tgagcctaga ttgaatttca gaacgagacc ttccacctgg gtgtaggaat cacctcattt 420
ggagccctgt agctgcagg attgccattt ctatatttct gtgcagcca cacttaacct 480
acgggtgtacc atcccattca tgcattgttat gccagaacc accttattan 530

<210> 30244
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30244

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aagcaaccgc ctacttgga aaatgtatat tgttcccgat gaagacgacn gagacactgt 120
ctcgtctgtg tcagaacttc cttgctgtgg catcctcaaa gactgtctcc gtctgtcaca 180
ctcgactcac accacacca attgtgataa acgcgctgct gtaatataat tanggggtgct 240
ntaatatttn ttttattaat atgattgaac caacaactca catatactac ctaactgaga 300
gaattttgat tntgaatntg aatttcaaca cataattagt tgaattttta ttagataata 360
tattattaga tctgtttatg ttagttcact attgatcggg taatac 406

<210> 30245
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30245

aggagtgcac cncctangat tngctgcaca nanaatacac aagcattcgt atgacctta 60
ccatgattnt gtcctttag ctcccttaac caatttctta agaatatggg caacaaccac 120
tttggttaat ttataatttg atgaccgggt agaatacag ccattacatt ttcttctta 180
ttggtttttt tttaaccccc caccatcct atattatctc caggttgtaa ttcttgtgt 240

ttctgttggc ggagtcttag gccgagttct tgcttgttct cgagggttgg gtttatttgc 300
aactggaaga cataggtgcg ggagacaaag acgtacgtgt acggatatcg ggctgggtctc 360
tggattggat tccattggac agagcactac tattatcagg tttacttgtg atgatattaa 420
gaaaagcacc aagaatctct ccagaaatac atagttggaa gaggtggtac aggattggta 480
caaggctttg cttctaatag agcgaag 507

<210> 30246
<211> 373
<212> DNA
<213> Glycine max

<400> 30246

cagccttctt ttttgattag gaaaatttta tccaccctaa ttaagttgga aatttaggtg 60
acagaaccaa aattaaacct gctcttaaat aaagaattat ttcttagaag ttaatggtaa 120
tggactaata attttaacct tatcattcca ttaccaatca ttattgatta taattttaag 180
aatatttcat aaaaatcatc aaatttatta tatatgatgg gttctgatcg gatgaaagtg 240
taaattattt tacagtgata atgtataatt ggttttctca atttttcttt gataggacta 300
gtgctgggat ttatctaaag aatgaaaaga tagtcatgta acttccaacc ctgagcaact 360
gaatgcaact act 373

<210> 30247
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30247

gggattctgg cctgatcat gcgcacaaca ctaacaagct ttgccacaat cacacttgtg 60
ggtctgggtc tttcctcgta ttattattat caaatttgcn cccggcccaa aaccacttac 120
taccaggatt ctgtgctttg tctngtgaga agtagttggg tgtaccaga ccaagatacc 180
gcattcttgg gttgagaaca aagaattgcc ttgtgcttgc tgaggtggtt attattaccn 240
cganggaatc atttgattgg ggttggcgct tattaacat ccccaaaca cctgtcttgg 300
attgagatgt tctttgtacc aaataccac attaacgtta ttgggaataa cctggtgatg 360
tgccattcat ttcttctatt ttctaaacc tttttgcacc atgttaatta ttgattgatc 420

ttaattgtca atttattacg caggtatatt atttgggccc attaagctta tgtgatgttc 480
 ttatctatatt cagattaat gaacattggc ttgatctgct ttggcttgat ttn 533

<210> 30248
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30248

ccccaggggg nnnaaggggt ggcttgcctt gtatatctgc ganaccactn ctacgngagc 60
 tgctntgagn agacctagat gatggcagcc tcctattatt gtggcagggc ggccctccctt 120
 cactttcttg tctccaacgc gacctctgac cactgttctt ccttcccgcg atgcttcttt 180
 catggtccgc ctaatgggct tatagcccta aacatacttt ccacgaattc cctgggggttt 240
 tatcaagcta gntatgctgc attgtctttt gctaaaccca tcccgggtca taaaccgtcc 300
 ctacataact cgggccatca taccgccgca tcggacagac aagggtgccc aaagagggag 360
 tccacggagg aaatgctgac cacctcaaaa gactgganag cggtttctaa cgattcttct 420
 gcggcttcca cataaggcat ggaggatggg cagcttacca agatatcttc ctgcctgac 480
 acgataacca agtgcccctc cactacgaat ntcagcn 517

<210> 30249
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30249

caaacattta acttgaacat ctaaaaaaat attagcattt aagcattgcc cggctataaa 60
 atcccaattt aaggatgtca cctaacattg atgaacttga aataccatag tgtgctgtta 120
 tagattttga acttgtaaag ggggaaagca tacctacacg agtatgcttt tccctgttct 180
 ggcaagttaa gatgttacca aaacttaaat ttgtttccat ttgacacaat atttaaatta 240
 tccttatttc acttaaaata aacctcttta ctggttgtag tattttataa acctcanaca 300
 tgatgcattg ttattggagt atgattgac cagctgataa tttcccccat tgatggtaca 360
 tattatat 368

<210> 30250
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30250

gagcttcact tttttaattt taaantataa aatttcatct gagttataag agtttttaat 60
 aagatatgaa aataaatatg gccaatatg tggttttttt ggaaaattat tatacacatt 120
 aattaagtcc gtgccttata ataaaaccgg ggtaatatta tccgaatggc tacttttatt 180
 ctattctgtg acatgtaata ggttttgcat tcattacctc agggacgaag gaattaagat 240
 gatttttttg cttcattacc tcagagacca ggattagga tgaatattgt acggacatag 300
 acgctcatga tctttntatc ttaaaagaaa tatctctgcg tgctttgaag ataacaatat 360
 agactctatg aaaacatttg agctatactc gcn 393

<210> 30251
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30251

agaaggatga ccatgatant cgtacataat attcagctga cacatccctt tgaaatgaaa 60
 agcaagaccc attattgtct ttatccctaa ccccgctgct ggattaacct ggagacacaa 120
 aaatttatga atattccgac cgatttttga attaaggcca accatgggtga aacccaatgg 180
 ttaattggga gggaatattt gaccaattta aatatattat cttacccttg gagaacctat 240
 cattttgagg aagaaaaaat ggttacttca tggattaact tgctottact ggtgcccaatt 300
 aattatatta tctaacttaa ttattaagcc aaggatatat acttaatatata gaatgcattt 360
 cccagtgggt taaatcattt cagggtggctg aagaaagcat gaccaaccag ctttaaccgg 420
 catcttaatc cactttgcat ncagagcccg atttgaagat taatntgaat gggtagaaat 480
 ataataatn 489

<210> 30252
 <211> 249

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30252

acactanaga gaagcaatgg cgatattgta cacacacaca ttctctatct agaataaacc 60
tanaatgtgc attttcactc tactaactta aaccctatgc aggggaataa aaagtaggtc 120
tgatcttata tgccaacacc ggcatgttac tagaatagat cacatccttc ctcacattgg 180
tcttcataa agaaagcggg aacggggaaa agtaaagagg gatatgtgac ggtgctttgt 240
ttctgtaaa 249

<210> 30253
<211> 395
<212> DNA
<213> Glycine max

<400> 30253

ggcggatgag aaaacattgt ctatattcca tctccaactc cagtaggcct cccaatcatt 60
ccttactttt ataggaggaa tggtagggac aataccctca atgccgtttt gtctaggaac 120
acacatcatt ccctagtctc ttccttcttg attattatga tctctatact caattgaacc 180
acctctcatg gagcgcacatca tctcgggtgat cattaacctc tccaaatgta gcatcaaagc 240
ttgcatgaaa gattgcgaaa gcccactcc ctcattagga gtaatacctg gcatctcaaa 300
caagcatatc aaaccttaca agacaaatat aggaactggg tgaatacctc acccaactga 360
gaggatcaca caataatggg ctgtctctaa cgaac 395

<210> 30254
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30254

aggaatgact tttctanatg attctgagaa ncatcatnna cgcattctna gactccanac 60
actgcggngn atatcaaaga ggaagtttct tatcacgtct tngtatatga caatttaca 120
gcaaactata gagacagtgc atcagacaac gatataacag cgaatgataa atgcctccat 180
catataaatt caaaacacga ggggcatcaa actgtcatca gtaggaaaat gatggatgat 240

atttatgcat taggggcaaa atgtagggga agatgtggat tactcactag gacatcgtaa 300
 cttgaaagtt accatgggtg aggaaataac ataactgtca gattaaaaaa gggccggtca 360
 cacacaagga cctcataagc attcacaata gtatgactan attgaaagta attattcagc 420
 gttaccttca actatttctg ctggtacata agcagcacat tatcattctc aagaagaatc 480
 actccgatta caaattacaa aacaaatcaa tag 513

<210> 30255
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30255

agctctgctt atttggctct cgccagcgaa aggatcgaag tggatctgaa aagaggcaaa 60
 tctaatactc ctgcttagac gaatgagaaa actgnggcaa ataaagaggg tgaggatgag 120
 ggacaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaaccaaca 180
 atgtcattac tcagtcaata acaaaccacc tccttaccga ccacccagtt atccacaag 240
 gccatcccta aatcaaccac aaagcctgtc taccgcactt ccaatgaaga agaccacctt 300
 tagcacaac cataaaaaac accaaccaag aatgaattn tgcagcaaaa agcctgtagg 360
 attcacccca nattcgggtg tcatatgcta acttgctccc atatctactt gat 413

<210> 30256
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30256

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 tccttgcgag ccctcttggg ttcttgttca aaggctcttg cggtagctgc attntcttct 120
 cgtaaccggg cacactctnt ccgaatgtct gtagcgacca acttgaatgn ttctttggca 180
 agtcttgcta ttctagttc tggtttgaga gcttagactt cttcatcctc ttctggagct 240
 ntgaaattct cttcgttgat aatctttaac ttggagagcc aatctaacc tcgtgtaaga 300
 actttcagcc attcatgata accaccgatg aagccattac gaatgccctt aagttcttta 360

tctttcctta acgagctttc ccacgcctta tggactcttt gtataacctt gaaactttgc 420
gcgccgaaat ctctcaca 438

<210> 30257
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30257

gtgggtacct atnttgaatc tgcgatgctg tctctacata catanaacag tcccaccatc 60
ccaattgtgc aaaaccatat tcatatatca ttgcggcatt tcaccgagca cttggtgggc 120
gcacgtttgg acataaatcg caagagaatg ggggcaatgt ggcatgcctc attgcttcag 180
aacacaacat aggcctaagg ctttctcatt caaatcctca actcaagaca tcaagcatac 240
aaacaacca caactgcctc accaatgtaa gcatgttctc acaattagag caccagaaga 300
tgaagaatat actccaatgg gaagcataaa actcaaggat ngaatactta cttgttggag 360
tgagta 366

<210> 30258
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30258

aggaggatga tnncttagac tctganncaa attacctact ccaccgagac gctnnaagta 60
gagctggctc atattcctgt ctnnnnctga gcgcacctcg ttggatgaga actagagcta 120
tctaccaccg gctataatag ctaagctcac ccccatgaca aagaagctga aaatgacaaa 180
aaaaaaaaag tacgttatac acaataactg agattgcgcc gaattacaag gcgtaaacc 240
tatacttact aaatggcgca aatacaaggc ctagacgaag gaataaccta tggttaatatt 300
tacgaagata agcgggctca tactaagccc atgggctgga aatctaccct aaggctcatg 360
agaaccctag ggcctttenc tggatctcta gccagctcta cttggagtct tctaaccgat 420
gctcttgacg ggtaggatag catcattccc tccaccttag gaaggatgtg acctaaatcc 480
cgagttcatg ag 492

<210> 30259
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30259

agacgttctg annctgagta gnatncctag ggcgnctact ctgaccnngc catactatcg 60
 agnngagccg acaggcaggc aggcaacta ttttgncttg acnagacccc nnagcttagg 120
 agagatcagc tctacaaaaa taacaaccga ggagcggaaa gtataaaata ttaaaaaacta 180
 atataaacga tgatgntaat gtaacaagtg acttcgaata aacatcggag ggaaataata 240
 ttactgctag gctacatact tatattgtac agagaactac tacaagtaac cttacaaaac 300
 gtgacaacta tgtagaaacg actaaaaaag attatztatg caacaatgag tacaacttta 360
 cagagataaa atatagttga aaatataatc gagcttaatc tctctaattgt gatagtaaga 420
 caaatgctca tatgacatct ctatcattta taacgtgccca ctaattgagc ctgggttattg 480
 ctcatatgtg cagtactttt tacagagcat gttcagccac gccn 524

<210> 30260
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30260

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 nggagaatga agaggcgaca aaaatgancg atgtgcnccn cgagcccaga agaggtgatt 120
 gagcctggag accaagacac ctatgaattc ctacaccgat atcaagatgt tgtccggcta 180
 caccaacgac tatggcatat cagcaaggat gtacatttct tcctagtcac acgcccggcg 240
 catggatgac ccactaagga cttctgccaa aacatgatta tgattctccg cgaatcaact 300
 tcacgcatgc agcctagccc tccaagcact gagaccagac gaagcccgaaggagacaacca 360
 catatcctac tcgcgaggtc tgtgctacca attctttatt gctgcacgag aacgaccact 420
 cctttccact caatgaacac aaatgaactt ttctctgtct accgtctctg agtcagatct 480
 ataactactg cacatatcca tttagn 506

<210> 30261
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30261

agctntttctc cctcattctc acattgcttt ntctcccttt ctctccacc attgaagcct 60
 ccattanagc tccaaacttt gtcaccatt tctgctccaa atcgcaaaag gaagctattn 120
 tcggagtcgt gaagcgcacc tctacgttgt gggaacttca aatttagggt tgggtagact 180
 tcttctcaca taaattntcg tgggtattgg gttttgggag atatgatggg tagttgtact 240
 aagtttatgc cttaaggtag ttatttgtga aggaatttgt tgaaagcatg ctaaaattat 300
 catgtttgat gtgagctaaa tataccatt ctgttttaag gttntataat gatactttgt 360
 gatgcttggtg tgctgaaatc gttggtagaa aattgataga gatggagggt agagt 415

<210> 30262
 <211> 210
 <212> DNA
 <213> Glycine max

<400> 30262

cttttgagct agaatgtgat gcctctggag tggaattgga gctgtttggt acaagctggc 60
 accctattgt tatattattga aaacttatat tgcaccctaa ctaccccta tgataagagc 120
 ttatgcctta taagagccct ccaacttggg acataccttg ttccaggaat tgcattctag 180
 tgacatcatc acttagtcac tgatagcaag 210

<210> 30263
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 30263

tctgctgcc aacatacaacc tttgcccttg catgcaacta cctggagcaa gtgagcagcc 60
 tgaggcttat gctgcgaata tatacaatag acgctgctca agccgcagca gcagaatcta 120
 ccacagcaga acagttgtga cctctgcagc aacagatata gccctgcatg gaggaatcac 180

gctaacctca tatggtccag cccttagcaa caacgacaac agcctgctcc ttaacttcaa 240
aatgctgctg gccagacat accatacatt cctocaccaa tccaacaaca gcagcaaccc 300
cagaaacaac caacag 316

<210> 30264
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30264

tatggtgttc aaggtggatg ntgaaaaagc ctatgactca ctctcatggg ttnttttggg 60
ttatatgctg canagaatgg gtnttttgcca cacatggaga cactggatgt ctgcctgtct 120
caagtcagca agcattgcta ttcttatcaa tggcagtcct acaaaggaat ttgctcctac 180
tanaggtttg aggcaaggatg atccttttagc ccccttactc tctaatatag ttggagaagg 240
catcacatga ttgatgaagg aagcagtcaa aagaacttat atagaagcta tatggctgga 300
aagaaaaacg aaccatttaa tatcttgtag tatgcggatg acagcaattt tgtgggtgag 360
gctgagtggg agaattgta 379

<210> 30265
<211> 173
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30265

gacctggact ggaaacgatt atcatgtact acagcatgat gatggaaagg atgacatcta 60
ttcgcttatt atcactgagt gaggcacaga gaccacacgt ttatggctac agaagatgtc 120
ctaataaatt atccacgtct gccatcatca agtactgttg taatgatcag aan 173

<210> 30266
<211> 275
<212> DNA
<213> Glycine max

<400> 30266

ttgaaaccac tttctcactg cggtgaactt cctaattaaa tgaaataatt tccctataat 60

taccatggac aaattccaat tgtaaagatc caattcttat ttacctaaaa tgattaatga 120
 ttcactaaga catcatcttc tcgctgcttt tgacaatgag tatgggtgaa cgaagccgta 180
 cactaatcca atacacattt aaaatacagt atctacgaag tgatcctacg ttgtctccaa 240
 cgagcaatgt caaccaaag ttcataacac atagt 275

<210> 30267
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30267

aggaatacta nnetcgattt tctcakanan tateannat aaggcatccn nggccgggnc 60
 tangaggaat cngagacat catntattnt tcnngaanc ccannactg gaggggaccg 120
 aacgcaggaa tcaaaccgac cgtgataaca tggaatccgc atattttatt gtacaatgaa 180
 atatggaacc cacctctggg tttcatattg gtgacccatg cctcataaca tatgagccat 240
 cagtttagta agttgaaaat attgggcaag atgtgttggt gtgttgagcc acgtgatgtg 300
 aacaactgaa tgtataccat aatgattaat gcatggctat ggagtttaat tttatattgg 360
 actaatattt tatgggacat actactgata aaatgtgac tagacatcat tgatcatgca 420
 agatcctaac cttaacaca gtttggaag attaagtatt tgctctatac aagatctg 478

<210> 30268
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30268

agcttcatac tttctaatta atagcttcca aattttcatt ttgaagctat ctcatgagtt 60
 atggctcttg catgtctccc atgttttgta ttcttcttt atactcttag taatatatag 120
 acttgtagca taagatcatt acgaataggg tcaactaat agttggtatg ctttttcta 180
 attaagtga tatattactt ttatactatt ttctacaaga ttctttctaa aagctatcat 240
 tttctattca tggctagaag acatggtttt atgatggtga tttggtgacg atnttataat 300
 aatcaacatc attaaggagg caatgacatt tttgtaaata ccagtcatat ttcaacgact 360

gtgttccata aaacgatgta gaaattgca

389

<210> 30269
<211> 250
<212> DNA
<213> Glycine max

<400> 30269

tgtagcattg ggtatctttt gtgatcgaca gcaccaccaa gaacacaaat agtgtcgaca 60
tgaaaaaac aggttgtgat ggtagaattt cttcttcttt gcaaacaaaa ccactatcat 120
agatcctctt cttattgacc agggtgagta ttttttttag tacgttcctt cctgctcctc 180
tgggttcatt tacctattta cattggatga gttttttatt cgggttttagt tatcactgca 240
tgttcattgc 250

<210> 30270
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30270

cggggaaggg gtnnnnttnn nnnnnnacct tgctagtcag gcataaccgga gtanctgagg 60
gagcaacctg tattgtttgn gttatttgcc gcaagaaacc tgcccatttt cttatctttc 120
ttcaggggccc tatggtttgg cactccggcg cttacaatat gggatggttg ttccgacctt 180
tggcttaccg attcgcaaaa ttggaggatt ggtagtggc tcgttttctt cacccttcgc 240
aaggatattt tggccaccag tttctattct tctaattgta actgtgaata gtggtatgat 300
catgtggagg cctcttattt ctaattccaa actttggatt tttttttaac ctctagtttc 360
attgccccct aactggccgc tataccattt tctcgaccc ttttgtttaa gtgaagggtc 420
ttatggccca ttttctgcgg ttcgatcccc t 451

<210> 30271
<211> 239
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30271

gtacaaaaaa aatcctgcac atattttcac ccttcactct ataaatacat gaaatcgatt 60
attctgacaa aatatatgcg tccgcgtggt cggtcgacaa actgtntgat ctgcagaact 120
gcataccatt tgatatcatg tttgctcatc cttgcgtggt cctctacaaa acaaaaaaaa 180
aaaaggggga agcgtgaaac ttcatactac attcttagtt tcatgtgtta cgcaccacg 239

<210> 30272
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30272

agcttgttca tagagatcta ggaagaacgc cgcggccgca gggactagtg ccgctcccga 60
gttcgatagc catcgtttca ggagcgctga gcaccagcag catttcaaag ccatcaaggg 120
atggtccttc caccgagaga gacgcgtcca gctcatggac gacgagtaca cagaatttca 180
ggaggagata gctcgtcngc gttggatggt gctggtcatg cccatgggtca agtttgatcc 240
cgatatagtt ctcgagtntt acgccaatgc ttggcctaca gaggagggcg tacggggacct 300
ccggtcatgg gtaagggggc agtggattcc ttctgatgca gacgccctca gtgtgacatc 360
ctgaaaattt ctacctgaaa ttnttgaaac gatgtatttt gaatgattat atatatataa 420
gta 423

<210> 30273
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30273

agactctgca ggtagatttt agccttagtt tcactttagt ttgtagtcaa tncaattaag 60
aaagagaaat gccaaagaga aacgtccgat tgattttttt tgctttattt tactaaaagg 120
tattttttga ttatgatatt attattatac ctcttttttg atttccaacg tggttacagc 180
acgaccgaac ggtcggattt cattataaca gaaattaacg gatattacag atcaaattgat 240
ccgtgaaaat ttattttatt ttttgattag gcgagagatg acttaaataa atgactgaaa 300
cacgtcaaaa gaggggtacg gaagtaaagt atacaagata ttaaagtaca cgaatcagat 360

ggagaccacc acgaatacat aaaatgaatt gaagagctca gtttgggtac ttaccggttg 420
ataaccgatg aaaaacgaag aacgaac 447

<210> 30274
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30274

gccatgcaag cttgacttct acactcaaac atggcaaggt tcaacacact ggtcagacaa 60
atcttcttca ccaaataacc ctatcacaaa gcataanacc annataaaac ctacccatca 120
tatnctccc aaagcccat acccagaaa aatgtaggtg agaaagaagt ctacccaaac 180
ctgagatttc gaggtccac acgtagagat gcgcttcacg attccgaaaa tgccttcctt 240
tcggaattg gagcaaaaat ggtgaccaa ggttggagct ttaatggaga ggaagaagaa 300
agaagaagca acgtgagggg gagggagaaa gcttctgaaa ttntctgttg agtgaggaga 360
gagagaaaac agctnttttg tttaaagagg atnntctctt ttctattatt ntattntaag 420
ctatgccaca tgtctccatt tgagtgga 448

<210> 30275
<211> 434
<212> DNA
<213> Glycine max

<400> 30275

atgaagagtc caaagcaata cacatattta acaaatacaa aggtgaatgt tttttaacac 60
atgcacgcaa acgaacataa aggccaaaac gaacacatgc atgcaaacat acataaaggc 120
caaaacgaac cacatacaaa cgggtaaaaa aaaagaacaa aatagaaaca attgtaggca 180
tcaaaactga tgcaatccta ccccgcaagg gcattggata gaaaactcca agtagattga 240
gccagagatg caagagaagg ccctagggtt cttatgagcc ttaaggtaga tttcggggcc 300
atgggctaag tacgagccca cttatctatg taaatattag attaagggtt cattattctt 360
gggccttgta tttaaggctc cataatagag gtagaggacc ctagaaatat aagagttttc 420
agcccttgta tttta 434

<210> 30276
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30276

atcttgagtt gatgaagtgt tgaagggtga aacttcctgc ntttattggt gaccacagag 60
 tggtagctgn agatatgtnc gcgggggtcat gagaccttgn ggacgtcang tgggggtgcta 120
 tttgccccaa ccaaacttga ccaatcccga cccacccgg gtgtcgcaac ctacccttcg 180
 gcgggagggc gacgcgtgac ttgcgggatg cgtgttccac ggaaggaata cgcgcgaggt 240
 cgccaccaac gtttatttga ggaaaacgtc ggaaaaaccg gaaaagacgc gatctacgaa 300
 ctttttagtg aaagggttcgg gagttgtatt ta 332

<210> 30277
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30277

agtcattggc gagtengact ntctgcgaca catttttact caagctgata cccgcagaga 60
 caacgtcgtg tttacgcca atcaatcgcn gcgacaaccc gnaacgcgog ggatttcgta 120
 atctccgcct ctcaagatct gtatatggac tttgagcacg cagatggcgg ataacgcgag 180
 tggtagccgt ataacttttg ctatctgtaa aacaaaacgc tgtagcacgc aaagacaacg 240
 gcggctttgc gccttcgcaa tgcgggtcgaa agcccgtgac accagagata tacatatctt 300
 tcgcgtcca agaactgaca tctgactttt ggtcgcgcta ccggccgaat acccaagggg 360
 atccgataaa cttgtgctgt tgtagacgat agctggtaca cccaagacta cgtngggttg 420
 cgccttatca tggcggcgac caccggtgc ctcggg 456

<210> 30278
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30278

cgccccgc an nncnaaggat gttgaaagct anagaagctn cgcaattatt cattgncccg 60
cgattctctg agccgactgg cgcgtggcca gattttttct taattaatnn ccaatattta 120
tgaatggtgta ataataataa attttaagac catcctatta atatttatcc ggtggtnttt 180
tatattaataa tattaagaa taaaatatta ttttgatat tccatattca ccggatcgga 240
ataattgggt tttttatata aaaatccatc tcttaggctt attttaaatt ttcattaacc 300
ggaattntta tttattgaaa tacctaaaat taatttaggg caacctaccg gcgcgtggat 360
ttaatattat tatcaatcct attatatata aatggagtga ttccgaaggg acatgtataa 420
aactgaaagg ctagtattgt gcaaaccagc gcagaaaaag gatcgtgaat atggtacaaa 480
tattttgaga gaaacacaan 500

<210> 30279
<211> 440
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30279

ctatgaatat attaagagga attgtatata attctggcga tnagaagttc tcccacccta 60
caaaaacaat tntcatattc aaacagaatg ggtaaattat aaaaatgctc agattagctt 120
caactatgca gacaaaaaaa aaaatagaag agtaagttcc tttaactggt aaaatatagg 180
acttggtgca natttaaata tcatgcaaaa aaagaagtgc agagtgcggg gaaaaaaaca 240
agatgtgatt ctgctttcaa ttgagaaatt gtatttagtt cccattaata aaatactact 300
ggttcaaaaa actaagatta gaacagtgtc tgcttcttag ttcttacagg aggaatctga 360
actacattaa gttatagact agagtcattt cagatcatcc ctttttcaac tacctcatag 420
tccttcagct tcttgtctag 440

<210> 30280
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30280

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aaaaaagctt accctaactt tgctttttaa tgtaaacttt gcattatttg atgaatcagt 120
 ttatagagat agaaataata atgcgttgaa tatgtaattt ttactatcat cgaatcagat 180
 cacanatagt gtgtatgata aacttggttaa atttatacat ctaccttaaa gttaagatat 240
 tatttcaaga ataatacaat gatataagag ttaattgcga caaatgagat ataaacttct 300
 taacacgtta gaataggact actactcaag tataccaata acattctgga tagttgataa 360
 tataaacttt accgctatac c 381

<210> 30281
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30281

actacaaggt taatcaatta cccacctaaa aactacaact attgaattaa ttatctactt 60
 cgctgtcatg ggcttaactc gtggacaagt aaggaaattg gagtaaccag agaacaatcg 120
 agaaactcan gcaaattgtg cctaccacat acaccagtac atcgaagtac ttactttaag 180
 ttaattaacg taaacaaact ctgctgtttc tcaattctaa cccaacaacc ataccaata 240
 aagagaacaa ctctgtggatt agctattttc attaattcta ttctatatat tattgcgaag 300
 ctatctgata tatatcctgg acgaagagta ttccaagnct tttgagggtc tatataattt 360
 tttttaaatt 369

<210> 30282
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30282

ctgctgcttt ctcangettga gtatctaaat atactaagga gaagatccaa aacatcaaag 60
 atgtacaata gaaggaacga ataacaactt attttaaact catctatggt gacctatggg 120
 acatgggtgga aaatggaaat tacattccat ataacgatca gttaaacaaa attcctaaaa 180
 gtcaatggac aaaggagcaa tctgattttc tcaactcaga gactccaaat gtgatgctat 240
 atgctctatc agaagatgag tacaccaagg tacacaactn taaaagtgtc aaacaaatgt 300

gggacactct agctgtaacg tatgaaggaa cgtgacgggt aaagaagaac aaactaagtc 360
tgctcactca taagtatgaa atctttctcta tggaa 395

<210> 30283
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30283

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gagatccttg gagtggacct gccgcatgct tctttgtacc tctntngcac tcgacactga 120
ctattcactt ttacttatgt tcatcaatca ccctaacaca ttagctatga gaataattta 180
tcaagaaacc ttttcatgtg gccatttcta atagatcgag gactcttgag tacatgtgaa 240
ggctgctata cagaagtgga acaattcaat tatagtatca ttttactacc ttacactcta 300
agtgcgacag atactctgtc catagtgact ttcattctcct cataagatgc aaagagtgat 360
atgtaccgtt acaaaggcat ctgttatgct tggatagcta ctgcacagtg gtattggctc 420
tataacctaa agctctgg 438

<210> 30284
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30284

aatcattcaa cgcattcaga atatgtgttc atccttanta aagctactct aaaataaatg 60
acacagtcgn cagcanagag taagtatcag atgatagggtg caccctata gatnttaatg 120
ccataagtat gtccttgccc ctccaacttc ttaataagag ctanattccc ttcagaacaa 180
aggatgaaca aaaaatgaga gatgggatct cctagtctga gacctttccc ctggataata 240
ggaccaacca agctttcatt gataataaca gagtagacag attggatgag aattaaaatc 300
cacttaaccc aagtcgcact aaatctcatt ttggccatga cgttttttaa ataattccca 360
tcgacttggt catagctttt gttgatatcc atcttcagcg caacttgtaa cctcccat 420
gttacccttg accttacact gcatatgatg gagaat 456

<210> 30285
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30285

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agctatgtgt ggttcttcaa tggatgaatga gggaggaaga aaagcaacgt gagggagagg 60
gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120
aaataaaagg gttntctctt tttctattat tntatttaag caatgccaca tgtctccatt 180
tgagtggagc aagaagggcc cactttctct ttttgactgt gacccatatt cagtcacaaa 240
agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300
ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360
tatatatatc anaacgctca gaatanaacc ccgaacgtgg ttcagagggtt ggtttcgtta 420
a 421
```

<210> 30286
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30286

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aggagtttat tctgcattcg gcannnctat ttatcngncg aactcagagg ggnnngcaag 60
catgcaagca agcagtata tttcnnnncc ccgcnnnagg aggggggttg tactatcatt 120
ccctaaaaac atcaacatat caacgttact ctttatttac atcatgactg ctgacgaagt 180
ttttagctgc actctgagat attggtgacc tctactgtag agtgacgacc tgtcttatgc 240
tctccaggct attcaaaatt tgcttgctct tcttgcgacg tacttggtta tttcttccat 300
caatgactca tgtctgaag tgtacatagg aatataacgt gttatgaact ctatttattt 360
gaaatttacc ttataaacgg actaaggtaa caccttgccg atgaaccctc ctttaagagtt 420
cag 423
```

<210> 30287
 <211> 337
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30287

aggagattta tctgactcan ncctatnttc gacaacaacc gncgggggag gaggatttta 60
ttttnnnnnn caaagggggg gtattacatc accaaacacc agcangacac aacatgggca 120
atccccaatg acattgtggt ggcaacacta caagtaatat actttaatga cttgagattc 180
ttactgtaga gatctgattc aatacaatgt agacctttcg caacagacca tacttgacta 240
ccatatcaaa aacatcaatt tctcaccaat taccaacttt aactggatta cgacttacat 300
gaagtacccc acatgcctgt cttttacaac agtcctc 337

<210> 30288

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30288

ggacctgcag gcaggcaagc ttgatttctt ttctcacata ctggaatcga ttaccagaga 60
agtgtttcag aaatattctc acagtccatc ttttacttga ttctgatggc tgcaaagcct 120
atattatggg aactggacac aaantgccaa gagtctttca aaaccaaag gtattatcct 180
ctaaaaagca catcgtttta tcctcttaac aaattccttg gccaaattac ttgtgattca 240
ataaggaatt atttgagtgc tcaaattgtg caatctatct ctttcaagag agatttcttc 300
ttttcttctt cttcattctg aaaaaaggga ttaagagacc gacgggtctt tgttgtgaaa 360
gaattctaaa cacaaggaa gggttgctct tgtgtgtcta gaacttgta 409

<210> 30289

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30289

aggttggctc cgctgagant ctaccanact actcnaantc angacactcg nngagagggn 60
cttacaggty agagaggagc aaataatatn tctaacncnc cccgaaacaa cggcgcccct 120
ggcagatgat cgcacacgcy aggccaggaa ccccgagatg atccgctaac actcttgtgc 180

gtgagagcag aaatgacaac cagtgggtgga caagaangtg agattccttt gtggagccgg 240
cgaactgcat gatgaccgtg agattatttg ggagagagtg tgttttgtaa tcaactgctg 300
cctagcaggt ccggaattct ttttgggtgat ttggagactg aaatcacata tttaatcata 360
tgtgtgaaca aagttattcg tcattatgtg aatgatgtgg actacngac tatatatata 420
tgtatatata tctcgtatgt gtgtatgggt ggattccctc aagcataggt gcactgtcct 480
ggggatgtat atcggtaaaa cgattcgttc at 512

<210> 30290
<211> 349
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30290

tccttcctta acctttctag ctgtgcattg gtgtattttg atctcctttt ggtcctctaa 60
ttgtggaatg tgttcaatat gtgggcaatt tttgggttgt ttccttgctt gattgggtta 120
gaaattgggg gggtttgtat ggagatgggc cctangccct ataatgcatt ttttgaagca 180
atgagacatg ccacatttgt ccccgttctc ttgctattga tgcctaaaca cgcgcccacc 240
aagtgttcng tgaaatgccc ccatggcatt agcgcggtgt ttttgatgga aacaacccat 300
ggagcatttt ggtttgaca tatnttccat tttttgggac atgcattca 349

<210> 30291
<211> 366
<212> DNA
<213> Glycine max
<400> 30291

acctttgtca atgatattct tcatgcctct taagtgcaga agtccaaatc tttgatgcca 60
tattttgact tcatctttct ttgcagggtg gacatgtgga ggagtaactg gttccttgag 120
gtgtccataa gtagcagttg tcccttgatc tgctgccctt cataaaaact cattcttctc 180
attggcacca agcattctga ctttgtgaag ttacattga atccttcac acccaactga 240
ctgatgctga tcatagttgc agtcagtccc ttcaccagca gtactttgtt cagactagga 300
agccatcatg gactagcttt cccattccag agatctgtcc tttagagcca tctccaaatg 360

tcacat

366

<210> 30292
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30292

aaggagttca tcttcttgca tnacgacann nctattncta tcngcgca catncacang 60
gnngacctgc atgctgcaa gctttcggtc ttctntnnnc actgctgca gaaaggggt 120
tatttatcca agtgagatta caagccccta acaactgtgc ttgacaacac gcctaagtcc 180
gacacagatc aggtgcttga cgatgtgtat ctgatagaga acggcacagg ttttttcaca 240
cggatgttga acttaaactt gtttacacaa acatcctatt tatgactata gaaagtgaac 300
aacctgcctt gattagctgc ctgctctccg accaccgata tgaagtagat tgcgcttact 360
gtgcttctcg tacctgcaca ccgccacact tctagttaag acaactctcg tgcggaac 420
tngatgcttg taaaagtcta ccatatcagc ttaaaaagga gaactacttt gcattgcaga 480
tgggtctaacc atctatcacc c 501

<210> 30293
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30293

agcttctatt actntattga cacacaaaat acctaatttg aatgaagcat ttgatattatt 60
tcttangatg tagtcttaag atgctgaggat gaaatctaaa attagggttaa taaaatttgg 120
tcaactttttg aaataatatt gattgaagat atggatgaaa ttgaatattt aatattaaaa 180
aatttgagta atttaaaaaa cttatataat tcttttataa ttataataaa agtggctaca 240
taagtaaatt attcttatga tgatcaaag aatcctataa gtatatgtaa aacctacaaa 300
aattattctt tccacaattt acccatgcat tgcgcggaaa aaattgacca tagttttttt 360
ttttaactta aaaaattgac catagctgan atgtaactta gtttcgctta ta 412

<210> 30294

<211> 259
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30294

ggagatcagt ttatcnanct tttcggcacg cggcgggggg gagctttttt cacacgcagg 60
 ggttgtagat accccccctg cacactcctg tgcggctata gcgtggacaa ccaggtttaa 120
 taagttatct acaaggcgca tcttgaaggg caatatgatg aagaaagggg taactgtaga 180
 attataaaaa ttatatatta tctaaggaaa aaagattgtg aaagaccagg gggcctggta 240
 atcaagcaaa aacgacgac 259

<210> 30295
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30295

agatcgtgac gttcttgcnn nentatnnat gnnccacnt ctgagcgccg gggagggctt 60
 tttcattttt tncnacncag ctgggggtgc gcagctggag aaaagaacca acaagaaaca 120
 gcccattgatg cgggggtggtc tttactgcag agtggggaac aagaaaaacg tttgactgcc 180
 tttggaagca ataactcacc ccattccatg actttcttta agtggagttg ccgcgcgag 240
 gtgggtgaag cctcgagagc agaagcacca agaggaagag agaacaccgc acgacctcta 300
 gaattggata aaacaatcta cagggtgcta aagacgctac atgggcttca aacatctgct 360
 tccgattaaa tgggtgtcatt actctcgc 388

<210> 30296
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30296

agcatatattt tcattaaaat agataaaata ctatgttcag atatacatgt ctacttgtga 60
 agagatagct agctatcaca tttagctatg gtgatcagct tcataaagag tccttctaaa 120
 cccaatcaaa gcaacaacaa agtaacaaat ntacagaata gatcaagtga aaacacttga 180

agcttaaaat cagtaatcaa tatgattgga tagaactata gtcttatcta aatcacangg 240
 caaaccacaaa cttgcaatan aggcaaagta actaaatagt gactactata gataacacta 300
 atcaattttcc aaagtgcata caaaatatat ccaaattgtgt gaataataat agtgatgata 360
 atgaacaata tg 372

<210> 30297
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30297

atccaagctc atcttggagg agaagctccc tcaaattggc ttattcccta gnggaagaca 60
 cctgcggtca cctattctcc tttgtcttcc gctgcatctc catggtggaa aatcaccatt 120
 aaaggaccta attgaagctc aaagatccag tctccataga agccacacaa gcaagcttcc 180
 atcanaatta gacctacgta gttcttttcat aagaacagaa cggttggttaa gttgttttga 240
 tattttttccg caagatcgat tagaaccgaa caaaagtcgt ttaaggtgtt gagcctttaa 300
 acgatctttt tgattttgaa aggaggggag cactgttaaa gcgctggacc tttaacgata 360
 tcttgttttt gagaggagag aaatgttaag gcgttggatc tttaacgatc tcatggagtc 420
 gacaaaagcg gagcttttggc tctacatat c 451

<210> 30298
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30298

aggcatacga tcangctntc gnananacac agaathnaat ccncggnncc cgagactccg 60
 nnggagngga cctgcacgca tgcttgttta tttcttnca accaancggn gcgggataca 120
 gtgtggagtg tatagacttc acagcataaa naataatcag tctatgttct ctcatacatt 180
 accgcatatg gagatgagct atatctcggt cacataagac tggacaatac cgctgtccat 240
 agatatgtat tatgattaca aactcgctta ctgaaacctc tctcgcgaaa tgagtctcta 300
 cattgattaa ccatctacat aatggaaata gaatggagag atgtctagaa atcagtgcac 360

catgccgcct atacactcgg agatcttatt cgatggctta ccctactata cctcgcacag 420
acagagtatg gtccttatct ctgcgggacc acttcatcaa aatgtcaagg agtccagat 480
actcatcata cattcactca cgc 503

<210> 30299
<211> 398
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30299

aggtttctgc ttgannccan anataacccc gagccnncga aggtagagag ctctagtgtt 60
tnccaaaacn gagagacgag ngtgaaacaa acacaccccc caaccaggcn gcaccacaaa 120
ggaagagaga aacgccagcg gagaccgaac gcgagatgga aggatcagag gacgttcacc 180
aagcgggctg gatttgaatc attcctgagg aagaagatga agctcttacg aactgtgtgg 240
ggtgatacta catatcagta tgacaaatca gatcggcata ggatacgcca catggaggaa 300
agctcatcca ctggaagaaa ttcgtcaaag aagcaagctg gatgtagctg tcccacaatg 360
aagctggagg gcgtggcttg gggtaaaaat caagcaag 398

<210> 30300
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30300

ctatcttact ttttcttgta tcgtgactct tcgttgccat catagagagc ggngcagaga 60
gaagaaacac tctctggcct ctcatcttca agcttcgatg gagatgagcg ttgcaaggct 120
aaagaaggac gagatccana ggctgaagaa agagatcaat tagctccgac gtccggcgac 180
agagctgcat gactcagaga caagcgcgac gctgaagaac ctctcgaag agggagaaaag 240
aatggtgaca ttcctagaga cgagcgcgcc agcaccacca tcaccatcgc tgatgttatt 300
caaaccetaa cccttctcac cctcaccctc aaccggttnt gctcgtcttt tctgtggga 360
ccgccttcaa cgacgtcgtc gaggagctca agaantntcac caccgcgcatc gctca 415

<210> 30301
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30301

ctaataaattc tatgtatgat ntanaacaag cctcacgtca gagttatctt tagtttcatt 60
 ggaatatttc cttcttttgg ttttgaggaa acccacatgg atcaatgcat attaccacaa 120
 ggtcagtgagg agtaaaatat gttttcttgt tttatatgta gatgatattt tacttgcaac 180
 caatgatcaa tgtttgctac atgaggtgaa acaatttctc ttttagaatt ttgacatgaa 240
 agaatttggg tgatgcatct tatgtcatca gcatttaaga ttcatagaga tagacctcga 300
 aggatttttag gtctatcata ggaaacctat attaccaaatt tttatagtga ttttgatga 360
 taattgtcac caagtgttgc tcccatcgag aagggtgata gatttaatt 408

<210> 30302
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30302

ttgcacctga tggctctgtg ttttcaccaa ctttaattcta ggttgacaag ttacatcctt 60
 gttgattcga tgggtgcgac tcagttcaga ttgtcacaat tggcttacga gatttgaaac 120
 acaggttaga atatctcaaa ttcataanaa tgggtttatg ggttttcgag attatgacta 180
 gaacatgaaa atagattaga aagaaaaggt tccatttttc ctctttctaa gttgaaatnt 240
 agtgctgcta cctttaccct tttcccaatt acccttgaat taccatttc aaccggattt 300
 caaactcggt ctgtttattt tctctagtta cataaccatt gctgacaatt gtgtagtgaa 360
 gtattaattt tg 372

<210> 30303
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30303

gtgagttttt tctttttgat tgcacacnat natgtttcgc gcaacanncc nnnaccggag 60
gatgcaacaa ggtgctacat tctnaacncc cggaccnggg ggnncggaaa gaggggaaac 120
accccgggag aaaacgnncc cccccaccn ngaaaggacg acaggggagc acgccaggca 180
gctgccggac cgcgagaagg gggcacnacc acgccacccc cccgaaggga agcggacagc 240
gaacgagaac ccaccaaacg agaccaagcg gccgagacgc ancaaaaaca accaaaacac 300
aaaaaccgca aacgcanagg agactgggca gccangcacg acaggcacgc aagcaagcgc 360
cgaagagggg cacagggccg ccccgaccaa cccaagcga accaccaag accggaagaa 420
agcccaagaa cccaccgcg aacgc 445

<210> 30304
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30304

aggatttctt gcctangatn ctnannantc aagaccgcg agcgntaaga ggccggatgc 60
tgcaagcang attgtgatat caaaaganac aaccggcgcc gcggcttgat cttataagag 120
gcaagcatct atccttcaaa cctgtgctca ccataatcga taacctacaa ctcttgogac 180
aaacttgatg aatgcttgga tcatccacct ttctaaaaaa tgcattgctc aaccactgtc 240
atttcccaag aaaagtgtta tggtcaaaaa cccgtgcata taatcgcttc atcctctact 300
gcctatgcga aagcttaaaa gaactaacca cctgaatcct ttgtggctct ctcacccttg 360
ccgaagaaga gcgacaaccg cctgatgctt tgtgactctc tcctacaaag atcgaagact 420
actgctgaga tcttagaaca tcctacccta aacaagacca aggg 464

<210> 30305
<211> 566
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30305

ngggatctta cccggaattc gacgnacnna tncatanoga ncnaaanaat tttctncncc 60
gngngagtag ccctcgaggt ggagncngcg ctggatagca tngcatgcaa ttggatgant 120

tttnnnnaag ganagaacct cccggtgtg tattgtgtaa ccacacaagt ggataccctg 180
 nnagatattg tccccggggt gtcaaggaaa acccttgngg acgatcaagt tgtggcgcta 240
 tttgcccnat acccagcctg accaatccca accaaccctg gcataatcag tcatttgaga 300
 acctgtaatg tacctaagca ggcgatgctc tggcagtcaa cagatggaaa ggaaaacaaa 360
 aaccacaaaa ctatgggagg ctgttggtg ggctggccca actgtgaatt ctggtgaatt 420
 atagtggatg gtagccctct ggtaatcnat tacctaaggg ctgggtaatc gattacaaag 480
 cctaaaaatg aaaacaggag gctatgattg tctctggaat ccaataccac ggggtgtatct 540
 attaccaggc ttggaaacaa gtcacn 566

<210> 30306
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30306

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 agcnnaggag agaaccacaca taatgggtcca atcccnccca naccaccggg agaaattgaa 120
 attccaattt ttaaaccctg tatccgatta cacaattgtg gtaatcgatt accagcagtt 180
 agtaaacggt ttattccaaa tttaaaaagc tgaattcgat tacacaatgg ctgtaatcga 240
 ttaccagacg ggatttcaga aaaatagttg caagagtcgc aactttataa atgctttaca 300
 tctgaccacc atgggctatt tatatgtgac ttaacctgaa attgctcaga gattttcagc 360
 caacagagtg ttatcctctc aaaagcaatt tcatttatcc tcttaagata tcttagcaat 420
 tcaatgcatt cttaaggatt aattgagtgc tcattctgaa atccatctcc tcaagaagat 480
 ttgttctttg 490

<210> 30307
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30307

agncatagc tctctcttca cggaatgccca ttatggagtg atcaatggat attcttcttt 60

caagtgcattg atacaaagat atggagttcc aagtgggaaa tataagttgg ttcccatagg 120
aactagagag gttgctaacc aaataggacc caacacaact attgtacctt aatctacatt 180
ctatacattg ttgtaggtga acctatcaac agataaacia ctatgggtatc ttgataacgg 240
ttgtctcaagg catatgatag gagacaagtc aaagttttatg tctctaaacg ctaaagaatg 300
aggatgtgta atctatgggtg ataacaacia acggagaatt cttgggtgtg gtaatatgtg 360
taattcccta actatctcca tagagaatgt cttatacgtg gaaaggctga aaca 414

<210> 30308
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30308

actttattat gctgctcctn ngctnntaat ccactgctta atatccaaaa taaacttgca 60
acctttgact tagacttgag aaagaaatcc aacacattct ggtgaaatca tctacaaaga 120
taatgtaata tttactctct ctaagtgaag tggctccttg aggtccgcca aatttggtgtg 180
aatgaactgc agcttctcta ttgctctcca agttgattgt ttgaagagta atcttggttg 240
cttgccatat taacatgttt cacagtttgg taattcagaa tctaaatgag gtaatccatg 300
aaccaactcc tttcattgca tgtccaacat aactgcatga tgataatggc ctaatctttt 360
gcgccagact tctataatat ttatagtaac tgg 393

<210> 30309
<211> 276
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30309

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gagtagcaaaa ctaaccctag cgcagagaag agatattctt cttcgcggta atatgtgcag 120
tggcgagctg gccgaagata cctgacctgc gttcgaaaat caacccctt ggaaatccca 180
acactagtgt ggtacctgtg ctcgacgatt ggggtggtcaa ggggaagtac cttcggcgag 240
cagacttcga cgcattcttc gtgaccttcg caaacg 276

<210> 30310
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30310

agcttangtg atcataattg cctcaatcat ttccaaagtg catgtgaatt anggagcatc 60
 aacaagaatc aagccaaggc tattgtgcaa gcaatcaatg nggaaaaaca caccacatga 120
 ttatgatgat ggatggctca aattctcaca atggtaaact catcactttc aaattgagct 180
 ttcaaaacta tcatgacatg tagaggagaa tcaaggattt caagtcacaa aatgtcaaga 240
 acttttatta tcaaaacaat tacccatttg ttgaacatat cctataattc atagaaaaac 300
 atgcaaagtc gtacatgcac acaaaattga ccataatat taaactagaa atccgacgaa 360
 actaacaaca ttaacaaatt aacacaacta acaaattaac aaaccaacaa tactagcaaa 420
 ccaaagaca 429

<210> 30311
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30311

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 agagggtaat gaaagaactt ccaatgacta ctcataacat ataatgatct gcctcgctgc 120
 tacgatatca ctactctaaa atgagaaatt tcaattttta gtgaaagttg tattaatttg 180
 attatgaaaa tggtgagaat atttttgcga tataattca tcaagtaatg catagattca 240
 cacacgcaca cgcacacacg cacgcacaca cacacacaca gacacacaca cacacgcaca 300
 cagacataca tatattaaac cactatacat cattcacatg acaagatata attcagtgtt 360
 cacatgtatc taaacttgta attgcatgcc cactcaacat cagtgaccaa ctaggaagaa 420
 ttgaaacaga catactctct aaagaactn 449

<210> 30312
 <211> 420
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30312

agcttactat attgcaattg gatgcttccc gccaccagtg atcaagcctc tttgatagcc 60
ttaaacaatct ttcttttcac aatgtgcaca ctataatggt ctctgaaatg ttcattgtggc 120
tccacatgat ntangtttgg atgaaaccta agcttatcag ccaccctttt ttccatccat 180
ttcattgttag cttgttttatt nttgaagacc cttccatata tgtgctcctc caaaaaagtg 240
ttgatttgaa agcttcttgt aacttcgaac catgaacaat aaatttccca tgaacatcca 300
acttgtttac aacgcgctct agcttgaatg ttgtcaactt taccatttc agatctcttg 360
catggaaaat agttaagtct ctaacaactt caataaacat tntgatgcta tcaaactcca 420

<210> 30313

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30313

gccgatttag ttnttgtcgg cgagaggatc gaagtttgtt ttaattgttg anaatnngat 60
natectactg tgatgattgg gattcctang gcanatggag agagtaagaa tgagggagga 120
acctatgcta tgactgccat tectacatgg ccaaatttcc caccagctca acaatgtcaa 180
cactcagtca atatcagctc ttctcattac ccaccatcct atcaaccaag aacacccaat 240
catccacaaa ggccaccctt aaaacaccaa ccagagaaaag aattttccag caaagaagcc 300
tgtaagattc accccaattn tgggtgtcgt tgctaactta ctcccatatc tactcaataa 360
tgcaatggta gccataatcc cagccaaggt tcttcaacct ccatttttctg aggatacaac 420
tcgaatgcaa catgaactca tcatggagga gtctc 455

<210> 30314

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30314

gggatgcctg tntctcnnnn atagaagtcc ccgacgngag gacggaggag cacttgttct 60

tgaaaccaag gccactgttc ggaatccaca ctgacttcaa agaggaggcc ctctcataca 120
 tgattcaacc tccccaaaca atattgctag gtcgaacccc gttggactca actcccacga 180
 tcctacatat aagaggacac aatggagtct agtgggcatg atcacacaac gtgctgaagc 240
 acgaagatgg actgcaccat tggaccttac cctcatgaac ttaaccaggc catctaattgc 300
 atagcccata tgactgaaga gaactg 326

<210> 30315
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30315

gacctaagta aactaactcg cttagcacga catgctggct tancgagtcc atacaaactc 60
 agaaattaaa aactagaatt ttaaactcgc gttaaagcga agtacagtgg cttagcaagt 120
 tcatacataa aagcataaat tcaaacataa atgatgaaca cgcttatcgg gacagggctg 180
 gcttancaag ttcattcagat aaccagaaaa ttcattccaaa attgatgaat tagcttagcg 240
 agtacatcga aattttccaaa aaattgggggc ttcgaagccc ctactttcca gtcactttca 300
 ggctaagaa ctctaataca aacacatcaa atgaacctac attacctaag aaactagatc 360
 cctaacaaca tataatcaaa caactag 387

<210> 30316
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30316

cagggatgcg cctaattgcat gaacatattg atattaatgt caagcatttc gttcttcgag 60
 atgacgatcc tgagaacttg aataaattac agcccagaaa tcaaccaaatt tagtgcgatc 120
 catcttggtc tttaattaat catccactgt ggcaatatga tccacaatta gtggggtaaa 180
 gtttatacac aagtcagatc aaaataagag aattntaagt ttatgcaaaa cattggatat 240
 tattcctcan aatatattan aatgaatgac atatatgtgg cattctcggt gtgaagaata 300
 acatttcctc cactgacacc tcatgtatag gttgcagcca gcatgcatgc aatgagatat 360

atatggatga aagcaacaag tacgtgtctg agtngaactt gaacta 406

<210> 30317
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30317

nggggtgtatt ctttnatctt gcannncgcg aancaacaaa cncaggcttg gaagagaagc 60
 gttgaggcca ttgattgata ttcattgttc gcancggccg ctgagtgttc ttgcgtctgg 120
 acgagaatga cccactgatt cttccttttg tggagacatt gttcaggcgc aaatgattca 180
 gtggatggct cgactcagag gaagaagatt cggtagtgtg cgtttcatta gggagctact 240
 ttgaactttt ctaaagacaa atggaagaaa tcgcccttgg gtattatatt ggggacgtcc 300
 atcttgtggg tcgtaaataa taagtactaa ctgaaataag aagaggagag ggacttgggtg 360
 ctcgaaagaa ttggaaagtg gggagatagt acatgtgtct ctgtggaggt cttccatctt 420
 ctgggggtgtt attacccctt ggggtggaatc acctggaagc ctgtt 465

<210> 30318
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30318

ttttttgttt attggcntac tcaaaacagg accacgtttc atatttcttc cctagcatng 60
 acataactgt cagttactgt cgaggcttct ggagcatcta taacttggtc actatattct 120
 gtgcgacatt tgcgtggata agctgcatca aatctctctt gtctctctgg attccttcag 180
 cacgaaagta gtttatgggt gtcaattgct tggcaactgt acttcgtatc tctactttga 240
 caatcttctt ccgtatcgca tgcagagaag ccccttctc aagctcttgt aacaatactt 300
 ttcttgcttc ctcaaatacc atct 324

<210> 30319
 <211> 618
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30319

cgaagcgatg acnactangn ctctacgaan nccccgcgaca cnatatgaat aatcaatgct 60
 tgnnaggatt atgggagtag gccgatcaca tgtgtgtact attgtgtgtt ggtcgcggcg 120
 aatgggtgcac acgcagagtt tatccgacat attttatant gcggcacata gaacaccaca 180
 natcgcccggt gtgggcccga cactaccaag ctggagcgtc agcgtacctt cccatcgtag 240
 gccccaatat ctctcngtct tcgtcatcag acacgcagag ggccgctcat gcanatctcg 300
 tcgctcagag cgtatcccgc agacaatcgc gaaggtagat ctcaaactat tgcaagacag 360
 ccacaacacg tatcacgagc gcaagaaaaa catgggcgaa agagcagaag aactcatgcc 420
 ctaaaactac caacgcaaaa gtcacgagct ggttcccacg ttaaaggacc gccagtgage 480
 atttcttttc gatccaagtt cggttaaccag ctggatcgac tcagtaaattg ttactggaag 540
 tctctactac aaaagcctac attttgaccg ttgagatatg ctagcacata tccagaagtc 600
 attctgcact actctttt 618

<210> 30320
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30320

ctagccggtt ataaggcaca tttattctga aattntaatg gaatgtttgt tgatgttatg 60
 tgctntaagg tttttatttt cgtttattta taaaataaaa tctgtccatt tgtatgaata 120
 gacaattatg catagtgtga acaagaaaaa aaaaaaaaaa aagagacact tgtgcaaagt 180
 caattcaacc attgtatctt tttttctcat ctagaagttt gcatagattt ataagaaaac 240
 taaaaagaat tagtgcaaac tccaaaattg atccttcagt ttttgtcatt aaattagttt 300
 ctcaacaata gataagaaaa aaaaaacact aaaattcatt ttcttgtgtt acaaaaatgt 360
 tcagaggttt aagatgtgaa gtgtgaacac tgtaatctt 399

<210> 30321
 <211> 139
 <212> DNA
 <213> Glycine max

<400> 30321

tgcgcggactt aagtcaatgg tcaaacccttc accattctac gcttattcca ccaccttggc 60

cgagacctcc cctaggccac atgtccttac catgtgtgct aagacatgtg tgctttcctt 120

ttgggcttct actgagtct 139

<210> 30322

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30322

agcttgttgt tctttgtggt tgctgggtggc aaatggggtt attgtattac atatgatgtg 60

gggggtgttag ctcacaactt gtgtgtcaaa ctcatatctt tatcaatata agatatttgt 120

gtgcaaaaaa aataaaataa tgaatattaa aaatcacggc aatattaaaa gttatttcaa 180

aatttaaagt ttaatatata attaatntt taaatgaaaa cttagaaagt attaaaataa 240

tacaattaaa aaatataaat aattaaaatg aaaattntta aactcaatat attaaattga 300

aactaaagta aaatttaagt taccaagtgt cattaagtct tttaaataat cacttaaaaa 360

tatcaattga tgagatttca aataaaaaata tttacatatt tgcttatgac anaaataaa 419

<210> 30323

<211> 479

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30323

gacacaatat aatacagcag ctgtgggtgt ntgcatgctg tttgggtggca ctaaagacat 60

ttgttctccc cttaatctaa taggccttgt ctgattgtc atgttcaatc agaaaacacc 120

aggtgaaatg gagtctggaa ctctccacac ctataaacag ggctagtata ttttgggttt 180

ttgttttatt tacgaaagat aatggatctg atggagcaag cagatataat ggcacaacaa 240

gttttcccga aggaacttat aggttttagtg tottaataata acaagatggt aatcggattg 300

cctgttatat tagaagttga ttgaattcca ccaagtaata gcattcatag gtaatgttgc 360

acagacaata aattaaaatg tatattntct gcctttttct tttcttggaa gtcgatgcaa 420

tgacatgctc ttcactgtgg tgagtaaaag ttcagatata tctacatagt atactaata 479

<210> 30324
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30324

agagcgggta gttcttgaga tcnogcaata ntgctctgta cccgcgatcc tntanaatcg 60
 aacctgcagg cttccaacct ggactattcc catcccaccc cggccttatt cggccgtgga 120
 gaccttgat gtaacttaac cagccaacct cttgccgtcc accaattaaa tggaaaccag 180
 aacaccaaac cagggagcct ggtgtggcct gccacctgc aaatTTTggt tattatgtga 240
 atggtggcct ctggtaatca ataaccaagg gtgggtattc gatacaaggc ttaaaatgaa 300
 gacagaggct aagatggctc tggaatcggt accacgggtg taatcggtac caggcttgaa 360
 acgatgtcan gaagctatga agcctctggt atcgatacca agtgtgaatc gataccagct 420
 tataaagaac tggagtgatg aacctctgaa tcatacagcc tggtatcata cacaagaag 479

<210> 30325
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30325

agagatgact tgaacgcca aaaaccgctg tgagactttt gaggcgtact tactcatggt 60
 cttatgggat tcccctggaa tcagcggaga tataagatat atgtgagagg aggcgccatt 120
 cctttaggaa taagccctgg gagaaggac cttcccacca cagatgaagc cttggatta 180
 agaaagcttg gagaaagatg cttccattg gaggaatg aaagaaggga gagaaanaag 240
 agaggggcgg agcctcgana cttgatggaa taaaagagg tatagaaatg gaacttttga 300
 agtatgtctc acaagactct cattcatcaa agttacaaca agtggtacac atgcttctat 360
 ttatagacta ggtagcttcc ttgagaagct ntctagagaa aacttncttg agaagcttct 420
 ttgagaatac ttccttgaga agctagagct tagctacaca cagcctctc ataactaagc 480
 tcacctcg 488

<210> 30326
 <211> 219
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30326

ccaaaaccag cttgaccaat cccgacccac cccgggctta gtcagtcagt gagaaccctg 60
 tgatgtacct aaacaaggcg agctcctggc agtcaaccga taaaagaaca aagaccacat 120
 agcaaggggg cttgtgtggt ggctggcaag ctgtgaatct tgtgtgatat atgggatatg 180
 gcctctggta atcgattacc anaggtgggt aatctatta 219

<210> 30327
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30327

agaagcattg ctgagactgc accaaaaacn cagcttatag tgcggtcttg gagacaaagg 60
 tcagnggtcg ccaatattgn agatgaggtc ccaagtcctt cggattgggc ccgaccatgc 120
 cctctgatnt ccactgggaa attggcgaag ggatgaaccc ccccggtctt accccacaag 180
 cattatgtaa cccttaccgg ttttaaaaac cctataattt ggccttagct ttagaagttt 240
 catttagtaa aggcttgtgt ctttggtttt gaattatata ccaagatctt cttcatctga 300
 tcttgtctct accattctca ttctttgcat gttacttctt ttctgaccgg cagattcatg 360
 acgagtcccc gagagactaa tacctggacc cgctatcaac tcgacaagaa cgatcaacgg 420
 agatgaagag agagatgtgg acttcttcga ctagaagggt gccg 464

<210> 30328
 <211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30328

cgggcccaagg aggagatttg accttaatct tgcnnattca tagtaccngc actcaagagg 60

accgaggatg agcaaatttt tcttaangac ccaacccaaa gatttctcta taccttgta 120
aatctaggaa acctatgggt cagggcaatt tactctaatt tggggaagga accattagaa 180
tgaaaaggaa aaggtacat tccccccac aaataagtgt ttgttaaaaa agaagcaaaa 240
aaataattgt gtggtaccaa aggtgaaagc acttacgaaa tgaataggag aagctattgt 300
acaaaacaga aagacattgg attatctaga cttggctctc ttaaactaac gttgaatcta 360
aaaaccagga tttttgacca cacctctac acctgaaaat cttctatcta ttatatTTTT 420
acttatgact a 431

<210> 30329
<211> 341
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30329

agcttttata ggatttattg aanatctcga cntatgtgg gcatggatgt ccgtagacg 60
tattatatta caattagtat agaagtcttg ttattaacct catctattat tttattagaa 120
tcactttttt gtgtattatc ttattagaat ctctaacttt tttaaaaaaa caaagacatt 180
ctaagatggg tctttgaaaa accatcttag aaagtataca ttctaaaata attnttgaaa 240
aaattatctt agaattctta atatgtttta tttaaacaaa aacgttctag ccactttaga 300
aaatatacct ttttaggaagg gtctttgaaa aattgtctta c 341

<210> 30330
<211> 489
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30330

gagtagttaa gtntctgaca caanatactc acagcggagg aaagaaggcg cacggataga 60
ctgcattgta ctcttgtag agactgatta atggggcgtg gagagaacac ataagacacc 120
ttcgtatgtg cctacctata aatctctcag cgtagcccaa gagataaaga aatagaaaaa 180
ccatgtttga aatatgctgc ctaacgtctc ttactgtcc ttacatgtac ctactatcca 240
tgaggatacc ggatgccgat aaatagtctg actaattcag aaaatgggac agtccgccga 300

ccagttagtg gatcgagttt cgaagaacat cattcgatgc tgagagtact gtatgaccgt 360
ctccgaatga acatgatgcg tgaagggtga atggcattat gagacgacct acaggcaagt 420
tgcacgagg agacaccttg gcatagtga gtgatatcaa gggataatca accgattgac 480
caagaagcg 489

<210> 30331
<211> 397
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30331

agcttcattg atagaaattg gtctaaattc atcaagctcc tatgagccat caacttttgg 60
aacaagtgtg atgaaggagg gggtgacccc cttgtgatta caccatgttc ataaaagtca 120
gcanaaacct tcaacacgtc atccttttagt gttgggtcaaa actttgtaaa gaacttaaat 180
ntaaagttat atggactcgg acttttgtta ctatcacagt tccttactac ttctctaate 240
tcaactctct gaaacttttc aacaagcata tcatttttca caatagggtt atgtttgaac 300
gactctntaa gccccctaa ccttgggtcta atccccctc atattgaaat ctctctcaa 360
agaaacactt canattctct ntaaccagca ttggatc 397

<210> 30332
<211> 448
<212> DNA
<213> Glycine max
<400> 30332

tatgtagtta aaaagggttag ttttctagtc attcaaaatg tctttttggc tcaacagacc 60
aacctatgta aataaatacc aataattcca taataataat attattgtgt gattaactta 120
ttactataat actttaatat atacttggtta gcctatttaa aggattatat tcaactagctt 180
gcatacaagt gtagactcat tagcctatgt agaagtatgt aacttattca aattcaatag 240
acctttacca catagtaagc atttaataaa acttccaagc ttaaccaaac ttttaaaatg 300
tcaagccatg ccttaaaaaa gcccatatcc aggaacaag gcagagctca gacctttgat 360
ttgtaaagta agacacgctc aagccttaaa tcctaactta actcaatccg tttccacctt 420
gacctgatca ttaccacgt ctaactaa 448

<210> 30333
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30333

 agctttattg taatgttacg ctccaacatc attttgagac gcacagtctg cacaacattc 60
 atgaaaacaa cagagggtcaa cagtntaaat atccaaggct aacggagaat gtgtatgaag 120
 aataatatat ggcattgctta cgtgtaatcc ttttttttca aaatgaagat gaaaaaatct 180
 aatgttgtca aactactatg tagcctctat ganaagatga cctcttctca gaagaaggct 240
 tcaatcaacc agagttaatc aagagaacct aagtcccca tatagatata caatgtatcc 300
 atgacaaact aaaatatata tgtatacata tattgatata tacatattga aacaaaccca 360
 ctagccacaa gctgcacata tatatatata tatatatata gcaataacct taagag 416

<210> 30334
 <211> 467
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30334

 tataaaactc aagggatgat ttgcaagat ctacccaac agatcatctt tttcaggcct 60
 agtnngcaga gtttcaattt ccaaccaaca catgatggta tntaacattc taattatatg 120
 tggaatagga tttgtggacg atagggcgct tgtttatatt ctccaaaact tcattaggga 180
 acatgttcta atttggatga tgcccatggt gatnttccag ttaggtgata aataaaagga 240
 actgtccatg gattactgga tgaacaaaaa taagtatatt aaagttntgt atcctgctcg 300
 atgtctgttt tagtcaacat ttgagactta cttaatgttg acagtagata aaacattttg 360
 aactgataat tgggtggtgtt ctttaagctg tatgcttgca ttacatttnt cttctttata 420
 taataattag gtcatagcta tttctacgtc tcaagtgtnt attcatg 467

<210> 30335
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30335

agactttctat tcattcgatc acacncnaat naagctcgng cgcggggatcc tctgagncga 60
 cctgctgcat gcaagcttgg ttenatttnc tcaacatang caacaacgag cgatgggtcat 120
 tcatagacca ctcacccaaa tatctgagtg cgctgggtac atcaaagat tgtggtcacc 180
 tctttcggcc gaatcgatta tatatatata tctcataaca aatcctacct tcgtataacc 240
 acctgctact agagttgcag gtttctctca cattgctaga ggacatatgc cagccttctg 300
 atagatctga tatacaacgt atctgcttcg ctaattgttt atgacctggt attgaaccag 360
 acatatgtgg cgccatctac atatggctat atgcagtgtt gaatacactc acctgccatc 420
 aatgagatag ggtccttcag tgttaccgct tcatagcttt caatcacatt tacggccatt 480
 tttgagttat ggtcgggtcc g 501

<210> 30336
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30336

gagtatatac tgagtactcc ccnctaacac naagctggag atatggcggc accataggca 60
 atatggggcca cttttgctcc attctagcca tcangacata aggaggcccc tcttgaccat 120
 ggaactccat atactgacaa tgtgaagaga gctataggca gcaatgggtc acacatgcgt 180
 gatctataat gtccgaagca tggacagatc cggaacaaaag actcatcatt aattttttga 240
 ttaactctcg agctggaacc atagtgttga aaactgttaa tggctcgaac tttgttaata 300
 caggggaaaa tcttttccaa tcgcctgatg ccgctggaga cgaagctgtt aaacaaatgt 360
 tattctagta gaaaccaaca atgagaacta ctaatgttta tccgggaaat tgttggagga 420
 aacaaggaac atatctattg actccgtgag cactcattga tctaattatg ctccagatat 480
 tggaaccg 488

<210> 30337
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30337

attacctttt acctcgggtgg ctgaatgaag tcccgtatat attcaaacgc ctgaattga 60
attcccaaac tttgaaccaa attccaagac cattaccttt ttctctgatg gcagattgga 120
gtccggaata tatcgagacg ctcgaaattg attattgaac ctcaagcana ttcaaataaa 180
catacttttt actcgggatgt ctgattcagt cccgtaatat atcgagacgc ttcgactaga 240
atgccgaaac tctgaganat tcaaacgaca ataactntnt agtcagatgt ctgattcaat 300
ccccgtatat atcgagacgc tcggactnga aaagccgagc tctgagcaaa tcaaacgaac 360
aaaattntta ctcggtatgt agattgaggt ccgtatatn 399

<210> 30338
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30338

gaaactcagc ttcacattca attcaagcgt gtcgatatat tacgggactc tatcagacat 60
ccgagtaaaa gggttattgt cgtttgaatt tgttcagacc ttcgggtattc catttcgagc 120
gtctcgatat attacggaac tcagtcagac atccgagnta aaagggttatt gtcgtctgaa 180
tttgtctaga gcttcaacat tcaatttcga gcgtccggat atattacggg actcaatcag 240
acatccaagt aaaaatttat agtcgtttga atttgctcag agcttcggta ttccatttcg 300
agcatctcga tatattacag gactcaatca gacatccgag taaaaaatta ttgtcgttcg 360
aatttgctca gagcctcaac attcaatttc gagcgttttcg atatattacg ggactcaatc 420
gaacatacga gtaaaaa 437

<210> 30339
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30339

tatcttatat ggcattccaa tctccttaat aagagatggg tganaaataa aatgatttgt 60

gaaaatcagt ggatctgtat ggatgatacg aaattgcacc atttcaattc attcttgggt 120
 cataagactc agccatccaa gattcctctt atgatatgaa tcaatagcgt tgccaaattg 180
 aataaaaaac atgactcata agatttcta atactaggatc ggctgctgcc gctatccaag 240
 atcagtaact atgcgttaaa tactccattg gattgcagca cccaattaag atatcaagcg 300
 agcattgagt agacagttgt caataattta agaacaagct ttagaacaaa ttatctagtc 360
 caacaaggga agattgaatt taacgagaag aagaagtgag aatcaccttga 410

<210> 30340
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30340

gggcagtagt gcttngngang cttcgcannn ncgcgacacn ataganntac tcagctntac 60
 acaatgantt tattataaca cataatcatg ctattattat aaattgtgga aggattgaga 120
 gtatagtgga ttagttcgat gaatttcatg aaatttatat tggttcaata tatttacatt 180
 taacctctat tatataatac tgaatatttt aagcagtgac aaaatgctta ctatcaaaat 240
 aaatatattt atgcctgatg atgcttacat gtgagaataa gcatgtgaat aaaagaaata 300
 cgttataggg attcataaat tcttaaaatg tatattttta gattttcact cgtttgctat 360
 tctgcttaaa taacttgaca gttggacacc tggacaccca ccgaaatttc aatgctcttc 420
 ataagtcgac tattaaatgt gtgcgcgcgc actaatttat ttagattcta attctatcga 480
 aagaaccact gtgttttaat cattctataa tagatatagg 520

<210> 30341
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30341

ttttcttctt ttaaagaata aaaatgaang aaggtagaag agattataaa aaaaaagatt 60
 accttcagag naagaggcct ataataatat ttatntttta ttttcatatt tactctaatt 120
 aattcaagat aggtcatggt atgcattcca ttgtccctct catntcacat tagaagggtt 180

attcttatca tgcacaacat aatcatttat tttaggtaat atctaattatt tgataatcaa 240
tatttttttta ctatataacc aaactcaciaa ttcanaatat ttgataagaa acatagaaat 300
caaactaata tataaataaa aatacccaaa ataaactatt agaaaaatcc ctattacaca 360

<210> 30342
<211> 324
<212> DNA
<213> Glycine max

<400> 30342

acctataaaa ctcagcttct cctccggtat cggttcaagt cgattcatcg ctcttatatc 60
ctcgctcga tcacactcca ctggatcat caacgccgtc ttcattttcc tttacttggt 120
cttcggtttt tgcgtcggag ggagaatcgg aaccgaaaac gagaagggaa aggtctcttc 180
ttctatggaa gggagtgaga gtgggagagt ggcggcgggg actacagaga agggagaatc 240
ggcattggaa ttgaagggca gaagcggat atgaagtgtg ggaggggtga atggaggagg 300
gggtgagggg acgtgcctct ctcc 324

<210> 30343
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30343

naagcttttag tagtagaatc atgggaccaa ctcatntat ttcanaaagg aagtcatatc 60
tagtcaaggt ctgagagacc atacaagtn cctaacgatn tctaattatg tgggccatta 120
agtctatcat atgctgacaa tagccgagaa gccatgaat ctcttcnggg cggagtangt 180
gtctgccatc gccttggect tggctaacia tcggggaagt tcttgactcc cgttcaaggt 240
aagagcaaac cgatccatcc acatgggtgc ctcttggtgt aaagagtcga tcacccttcc 300
tctagcctct ntttccggt atacttgggc atactcatcc gcgattctat gctcgtgggc 360
cgtggctaga cctaactctt cttggtactt ggcaaagagt cgatcacctt tcctctttca 420
gaaccatgc 429

<210> 30344
<211> 467

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30344

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 ggcaagccgt cgcattttgc aagattatat cccgagacct tgggattggg tccaaccatg 120
 ctttcttgat ttccagctga gaatatgggc gagtggagga acgccccggc atttacccca 180
 caagcctaatt tgtaaccttt accgggtttaa aaactctata agtgggcctt aggttttagag 240
 gtttttcttt tggttaaggct tggggctttt gtttttgatt tattatacag agatcttctt 300
 catctgtccc tggctttacc attctattca tttgatgtta ctcttttctg aacggcaatc 360
 gatgacagtc cccgaagact aatcctggac ccgctatcaa cttcacaaaa atgaataaac 420
 ggaaatgaag gaatgggatg gggactcccc agactagaag atggtcn 467

<210> 30345
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30345

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 ttctaagaac gaaatagaaa ctgaaagata tggatcgcg atcaattta tcttaatgat 120
 aaagtctaag agaataataa gaatctagtc tggatattct ttttacctat ttaatatntc 180
 taaatattat gagttctcca tttagttttc tattcttcag agacatgtaa acacaataaa 240
 taaaagactt gccaaagcca aaatcatatt tcaactataa ataaacaaga gttgcgaaca 300
 cgcgtgtaga taaattgacc actaattctg gttcgaagac cactaaataa attgacgagt 360
 ccactaatta aggagtgtct aatcgtctag ggagtataat gtatagta 408

<210> 30346
 <211> 335
 <212> DNA
 <213> Glycine max

 <400> 30346

 atagcaatat gcgaaatggt tttcctaact cctacttact agtatgagat gctgttttac 60

tcaagatgct gacaacaacg agttagtggg ttatttcata atacccta atctctcttc 120
tcttcacgc aagcgacaac atagcgtaaa atagtctatc ctatgagagc atcacaaggt 180
ggactcaaac tgcaaaggaa gcgagcatgg tcttagcata cacggcaaca acatgtgacc 240
ttgggttggt cttggcaatg gtattggctt cacggagaat ggtgccacca actgcgggcaa 300
tcgagactaa tgaacataag cagacaacta tcaac 335

<210> 30347
<211> 365
<212> DNA
<213> Glycine max
<400> 30347

gttgaacatg attggattga ggatttgatt gacaaaatgg attaggggaa tgtgatttca 60
aatctgcact tatgcagaat ttgctgggtca aaataggtgc cagcaggatt ttaactttgg 120
tgcaaaaaat gcttgtgtgt gggtggctgt ggaaagagta ttacacaatg agttctggat 180
gtttgctagt agatccccac ggtcacaatg taagcttatg cactatagac ttccagtaaa 240
attttgagat cgatccaacg gttaacgaat tggatccaaa gaattgtact gtggtcttta 300
aatgagaaaa ctatgatttt ggtgatgtgt gagcaaagta tctgcctttg ctctgtttgt 360
tggt 365

<210> 30348
<211> 475
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30348

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tgggcacnaa gaagtagggg gggaaaatta tgggagagtt ttncactaaa taccaaggga 120
gttagtgatt tacagaagaa gctacatctc acagaaacaa gaaccacaat agccttgtca 180
agcttcagtc actagccttc aattatatag aagggtccgag gaagacataa tacaagaat 240
taaatgaaag gaaagagggg gagtttgcta aatgggggca caagaaacct aagggggatt 300
ttctatgca catgtaaagc catagctatt atctggacca tacatgcca ttctgggcac 360

acctagggtg atgacagatc tgctggtagc ttgtgaacaa caacacagct aagggcacat 420
acacaagcag gcacgtctca aagaatgatt agttcttgtg tgtggacctt ggggg 475

<210> 30349
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30349

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aactcgtaga aatgtgtttt gttttatttt cggacaccaa tatgnttact cggtagtaga 120
attgcatttg naagttgaaa ttanaattac aatnaaggat angtttgatg aatggagcat 180
ctgtatatan ttttgcgctt atagatagaa gcatttacat tgagcacatt ttgcttttgc 240
cttttgctta tatgtattgg ctataagggtt ttgggttaact ggttntgctt taaagttgct 300
ttgaactgaa atccaagtgc taattaagat ttgttgtagt gtagaatgca acaaggtggc 360
ggagtggcat aagtctcaag aatctcanag aaaaataacc ttaataactg ctttgcatac 420
atgtaacaat 430

<210> 30350
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30350

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acatgtgcc a gttcaattac caccgcctgc ttcggtcttc cgtgggaaaa cgtcaccggc 120
gtgttctccg acaccggctg gtacgccacc aaccagggtg ccgttgacgt cattcttcag 180
cacagaatga aacaataccc atgcctcact cgcgaaacct ccgtcggcgg cgcgttcttt 240
cgttcttttc tacgcggggt cgacatcgct cgctaccttt ggggatacaa catctcaatg 300
cccgacgctg catcgctaga cctcgtgaat tggctcatga atagaccgga gtggaagatc 360
atgaacggga gagaccatt tctcgttgcc ggtaagatca ctngngatnn tcggagactc 420
actgaagaag aatcggattg ggggaacaag cttttggnntt ttactgctgg gaaaacatgt 480

cgatgcttgt ggtgagtcna gtccgtgaac gcg 513

<210> 30351
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30351

cctgcttttc ttttctcatc canaaggatt cgggctacc tttcttaatt gccagtcacc 60
 ttctgtgtc ttcttttggc aaccttcacc actgcttcaa ttcatagaaga aaaccttagg 120
 cttctcacia atcttgcatt tcattttcaaa cccaagtcac accaccaatt ttcccaaaaa 180
 gataaaagtg gtttactggc atatcatcaa agtcaagtca aactgttcca tatgcttcaa 240
 gatgagaaaa gcactactta taaataaaac ttacaatgta ntataacata gaataaatat 300
 tgtactanaa ctataatcna tataactaatt atcccaaaaag canaaaaacaa atgtcatcag 360
 gaattcaaaa ttctgtgac tgggtcttgag tgtcttatgt ctgcacatnc ctctcatctg 420
 tcagatgaag cactan 436

<210> 30352
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30352

tggcaataaa tactctaca ttaatctctt catgctttgn atggnnnggct cgncccttgt 60
 cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc actgcacccc 120
 caaatgcaca agtaagaaga gataattttc cgggctctcg tgtccgtaaa atgcattcat 180
 atcatgcac gcataagcat ctcttcataa catcatagtg gacatatcct gcatttgtcc 240
 gttatcatat tccagcctca cattntgcat gagtcatggc atcatcatgc atatgcgttc 300
 aacanacttt ttgatctgca aaattgcata ccatttgttt tcatgtttgc tcatccttgc 360
 gttntcctct acaaaacana aacaaaaaag ggggaagcgt gaaacttcat actacattct 420
 tagtttcatg tgtaggcac cagagccaa ccat 454

<210> 30353

<211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30353

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agcttttagtc ttttcaactg cacaacgctc ttaatatggg aagagtatcc ttgtggaacc 60
ttcacctgac gaagacactg acaataactt atcttttcct tcttggacaa agtatggcag 120
gctggggggca agtaaatttt cttcccatca gaccttggat gcaactgtgc tcttataccc 180
atatcagcta gatcttgacg ggtattcaag ccatacctcg tcttgccctg aatgttaagg 240
agcgtcccaa tcacactgtc acaaacattt ttcttcacat gcataacatc aatacaatgt 300
ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt cttccatatt 360
caactctgac tnttatcctt cttttgggtc ttcccaaata cagt 404
```

<210> 30354
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30354

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aagctggggcg tcgacanngc tgcgacacna tagaatactg cagcgtgtcg attcattcta 60
tgtaccgcga gcaggccaca ttgtgtttct tgcattacta tccacgacga gtggactggg 120
tatacccgat gaggacgggc ttaagccatt ntacttaagg cgtgagtcac ttaactgaag 180
atagaaggaa tctgccccga acggttgact gatattatcg cgtaacttcg ggtggaatca 240
attgcgaccg ttcggtcgtc gcgaaccacg ttggaaagca taaacaggta gaaaacaagt 300
atgtaatcga agaaacatct cgttagttaa tagtgcgagg agataatcgg acggtttctc 360
tttgggatgt ctcatgctta atcgagttga ttggtactaa ggtgaaacta gagttagatc 420
aactcgctag gcagctcgcc acaaaagagg cttggaagtt gcgttttgat gctcctaaga 480
aaatggagat gtgacg 496
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<210> 30355
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30355

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 aacataaaaa gggaaaaggt aatatngtag cccatgctct ntctcgccgt catgcattac 120
 tttcagagaa tggtttcttt agacatgaag gctttctttt caaagaaaac aaattgtgtg 180
 tgccataaatg ttctactaga aatttgcttg tttgtgaagc acatgaagga cgggtaaatgg 240
 ggcatttttg ggtccaaaag actctagata cattacaaga accattttat tggcctcata 300
 tgataaatga tgtgcacaat atttgtgaac attgcattgt atgtaaaaag gcaaagtcta 360
 aggtaaagcc tcatggattg tataact 386

<210> 30356
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 30356
 atatcttaag ctgtagctac aaccttgatc tcccccttg gcgtcatcat atagccaaag 60
 aactcggaga tgagcacagt gataacaatg gagtagcaag atataagtat cagagtatta 120
 aatacaataa gccaaaactca taatcaagaa ataatgaaac cagaatttaa ataacataaa 180
 atgtcaacaa ccacaaaata tccaagactg aatgttaaaa acacgagata aataagcaaa 240
 gtacttagca taataatgta aatgctaaga aactaaaagc cgaaatacac ggcgtataaa 300
 agataaataa tcagaatcta atagcttaga agactgagga aggggtggaa gatcgaaact 360
 ctgacgaatg tatccgacat 380

<210> 30357
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30357

agcttgata tttccccaat ntatggncat attggagtga atntgatata tnaaatctta 60
 tttatggnta aactgtctc tagaacattt ccatagaatn taattgaaga aattgtgcac 120
 tttcaggaga aaaaaaagct aagttttgaa ttgcaaaata tagcagttgg gctaagctca 180

gcagctggct aaacacatat ccaccgctaa gcacagcttg agcgcgctta gtgcaaagga 240
gaatttggca gagcatcagc atcaaagtcg cgcgctaagc gcgggatcag tgcgctaagc 300
gcagaatgtg ctttcagcca ggctaagctc gagactggcg ctaagcccaa tttcacttac 360
t 361

<210> 30358
<211> 473
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30358

actcagctag aaagcaactg gatgcgttgg tcaacttggg aacctatctt gttcttgaat 60
cagaaatctg tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca 120
gaccttngcc cttccatgca gcaacctgga gtaattgagc aacctgaagc ttatgctgca 180
natatttaca atagacctcc tcaacctcag cagcaaaatc aaccacagca gagcaattat 240
gacctttcca gcaacagata caacctgga tggaggaatc accctaacct cagatgggtcc 300
agccctcagc aacaacaaca acagcctgct ccttccttcc aaaatgctgc tggcctaagc 360
agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca gccaacagtt 420
gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat gca 473

<210> 30359
<211> 302
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30359

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atgatattatt ataaattgat tctaaagtcg gacggaaatg caatgagcca gtttatgaaa 120
caatgtcata actcctgtgt atatggttat tgcattgat gattgataaa tgactccgaa 180
gtcttatact ttcgattaat atatacaggg ttgatactg gcgcttctta tttttatctc 240
aatctgggtga taatgatgta tagngtatac gttgacttga gatgtttgcc actaattaag 300
ca 302

<210> 30360
 <211> 380
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30360

 gagccctata ggggatggac cttttcatgt tacggagatt attattatTT atgcctataa 60
 gnnngacctc cgagaatagt atggagttag caccacttat aacattgctg atgtaattcc 120
 ttttgcaggt ggagctgata ttgatgagga ggaactaaca gatttgacgt caaatcctct 180
 tcaaagggaa ggcgatgatg cactcctccc taagaaggga ccagtctcta gaaccatgag 240
 caagaggctc gcagaacatt gggctagagc taccgaagaa agccctaagg ttcttatgaa 300
 cctcaaggta aatatctgaa cccatgggcc aaggttgctg ccaattatct ttgtacatat 360
 tagactagga tgtcattata 380

<210> 30361
 <211> 516
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30361

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 tntagagtgg atgtgcacgc atacttgctt ttatttacca aacngnaaca gaagcgcacc 120
 gcatgcagca taattnttat tgtacacgaa gtntcaatta gacaaagtat cgttcttatt 180
 aagaagactt gaactcattc attcctanat cctgaccnag catgatccta atgatcaaga 240
 aatgcgctcc tatectatca ttcactaaaa ctggatttcc taaaaatata accacacata 300
 caagacaggg aaggtccaag gttatattgc ctgatgccca gagaacagtg agtgtatata 360
 taatcatacc taatgactga tccctaaaaa ggtaatacat atggatgaca agatctgaag 420
 tattactgac ttccctacat attcagtaaa taccaccatg ttggttacag agacacctta 480
 caatgcagag gattgcactt cgagaacaga cacgtt 516

<210> 30362
 <211> 293
 <212> DNA

<213> Glycine max

<400> 30362

ggcaatatac tcacacgttc gcggagacaa acaatatcgt taagttgtaa gcagtcatga 60
gtgcgtatgt ttgctacact ggccagggca gcgtgcacag gattacgttg tttgcgatga 120
accatattag taatcaatta gtaataaatt aatattttga atataataaa ttctttaaag 180
cgagaaaagt cacattaatt attcaactaa ttgagtgaag tccttaaatg tttaaatata 240
ataatcaata atgtatgtac ctagtggatg tattatctat ctagttctta aac 293

<210> 30363

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30363

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gagagaaaca aatgaaaaga taggacgata ctgctttgct tatatgttca attgaatcta 120
atgaggggaat cctctttcca aaggtctccc ctctctacga gactgcaaca catcagatgc 180
ttagttcccc aatacataca aatattaatg ctttaccttc accgcttcta ctatgttagt 240
caagtgcttg ctattacaac tataaccacc ttactcattc tataacttcc tataccttat 300
tagaagcaca ttaagaacaa acaagaccct aagagctgtc atgggttcttg agtaagaaac 360
caatcactgg aacacatcta 380

<210> 30364

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30364

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tgattcatag ataattgcat tattagacct ataccccagc tgagtatcag ccatcagggc 120
acataacaag acaagactaa gatttgacct cggttagatc ggaatctaac ccatcaggtta 180
attgtgactc ctcttataga ggaatgaacc aattaaaacc atgcataana acagataata 240

tattacatat ctacagagca agttaaatgg ctacagcagta ttcattccaca gcaccacctt 300
 ataagtgtca ctggcctcgc acatattttaa agatgtttatt aanagaacaa agagaatttc 360
 attactgggc aacactagtc ctataagc 388

<210> 30365
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30365

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 ttngcttgat attgccatgc atatctctat gatatcatgt gatgcaatcc tccccccaa 120
 ggggtattgga tagaagactc caacaagttt gcgccagaga tgcaagagaa gaccctaagg 180
 ttctcatgag ccttaatgta gattttgagc ccatgggcaa agtatgagcc cacttatctt 240
 tgtacatatt agattaagat atcattatatt ttgggccttg tatttatggc tctataatgt 300
 aagtaagggt ccctagaaat gtacgatctt tcagcccttg tattttaagg cacctatact 360
 agtttttgta ttaagggtac ttttgtaatt tcacatgcat taagtgaata tgtgatgt 418

<210> 30366
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30366

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 gcgccttttc cttgtattgg ataaaaaaat atggggcgagg tttgagttaa aaaatgacga 120
 taacgcataa taaagattcg catcagattt tgcctctacc caaagtgtgg aatgttcgtc 180
 gtctcaccag catacaatca atatatgaaa aaataggctt tatcttggag ttgaagaaac 240
 tgatgcgtac gtggatattg cccactcgct ctttgtcatc ttctttatgc ataatggtgg 300
 gccttaatag ccagaaatc aaaagcagac tccatgtaaa aaattaagac ctattatcaa 360
 ggaacctaac atttgctaaa tgaaagcttg gaactataca aaggtctaaa acacgttaat 420
 ttcatgacct tn 432

<210> 30367
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30367

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 ccatatcctc ancctgcaca acaaaaaccn gaggacgaaa aagcgngetc agagcgcagc 120
 angcncttat actattgagc aaatcaagca catgcagcga gacagaagaa atgaactgac 180
 aacacacccc aataatcttt ccacggagca aagaacacat atacgcagct gcaataacac 240
 cattagaaga cccaagcacg ccttaaaata aattcaagac tgaacaatgg gaaaaacaaa 300
 accacccgct gcaaaggaga aaagagaggg ccaaaagacc aaagggccat accataacac 360
 aaggaaaaag cacaccactg agcaaaataa agctacaata gcaagagctc tcttacacaa 420
 aacgaaccaa aaattcagga ccaccaaaaa aagacaacca gagccaaaaa agaacaac 478

<210> 30368
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30368

agagaatggg tgaacctatt gttataccca cngncgaatt cgagcatcgg accgccggga 60
 ttctcttaga gccgaccogg agggcaggcg cagcctgttg tactatgcag cgtctctcga 120
 ngaaacacgg cggngagctt gtgcatagta ggtaacaaa aaatgcattt ggtacaaact 180
 tactagaagt tcttgcaagc attctcgagg agactactct atattaagct tatgctcaac 240
 taagataaac aatgggtttca tagcgtctct tcatnttagg gtccctacag gtcttccaaa 300
 actttgaagc tgctcttcca tttctactcc aacctatagc aaacgtaatt acgtccaatc 360
 aactaacaat attcttgccg gaaccaaagg cacgcttgga aaggataatt ggaggatcac 420
 catagtaaaa ataatatata ttactcaat gggattatta agaacatatc ggcccttatg 480
 aaggg 485

<210> 30369

<211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30369

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 cagagtatca ngacattaat ttgttttcta caagcncaan agcccagagc gcttttgatc 120
 acaaagacga tgatcttcac aatcaaagaa tgggttcaag atggaatcga taactcttca 180
 gggtcaaaag aactttggtc tccggacccc tagactccaa cttcatgatc caagttccga 240
 gattcaagat ctagaatcca gactgcagat ccacgattca tgagcatact ccttcaagat 300
 cagtttcaaa tggttttggt aaaaactcga gagcacatga tttttcctca cacctttacc 360
 caaaaagtgt tactcctctg ttatcaatac tacactattg taatcaattc ccagtggaaac 420
 aatggttgtc aacagctttc acctgaattt acaaccgttc cacttgttat caaagagtgt 480
 acg 483

<210> 30370
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30370

aggagatttt gctcgtatat ctanggcgat tncnagctcg gacccccgggg atcctctaaa 60
 gtggacttga ggcaggcaac cnggtgtnga acctccaang gagggcgggac ctgggagctt 120
 catgggggtc cttcatggga ttttcacatg gaaatgcacg gaagactaaa gaatataggt 180
 gagagaagcg ccattcatta aagaataagc catggaagaa tgagcttcac ccaccaagat 240
 gatgccttgg attaagaagc ttggaaaaga tgcttcaatg gaggaaaaga aagagggaga 300
 gaaagaaaga ggggggagca cgatattgaa ggaataaaag atgtatataa gtggaacttt 360
 gaagtatgtc tcacaagact ctcatcatc aaaggtacaa caaagtgtta cacattgctt 420
 ctatctatag actaagggtc ttgcttn 447

<210> 30371
 <211> 541
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30371

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ggggtcggaa gaaatcgang nnaactttggn anantctnc nnnnnntnta ngnanaagng   60
cccagcnnan canntccgcg naccaggagg ggcgagacac ggaactanat tantttcttta  120
ctcttagaag gaaatctacc tgtgcggggcc gttggtggtg gatagtaagc aaaccaagag  180
gatgcctgcg acgcgaattg gtttgcccat ttgaatntga atgttaacct taacacacaa  240
taagcatacc aagcccagta ttgggtatgg ctctcttgaa gccttaaacy gacgaaagtg  300
cataaactcc tatttggttg tatgatgatg gagaagcggg acttttttga cctgaaatgc  360
tacaacagat taacgaacaa gtgaagttga ttcgagagaa gatataagca tctcaggata  420
ggcagaagag ctatatgata gaaggggaaa ccattaattt tctggaagag acatggggtt  480
tgaaggttct ccaaaaccgg agtcagaaga gcctcaatgc tagaagttac acccaagatc  540
g                                                                                   541

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<210> 30372

<211> 173

<212> DNA

<213> Glycine max

<400> 30372

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caacgattgg tacctcaaaa cctttacact gggcaatgag gggcattgtg cattagcctt   60
aagtgaacat acgggcaa at caaaaattct cacctgtcga tgttttttaa caacaaaaaa  120
aggagggaca aaccctatga tttaatggat tgatcaaaca ttaaaccact tca          173

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<210> 30373

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30373

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gaggataaac ttgatatcca nanataaana anaaccncgg cccantnnna gaagagggga   60
gaaggaagat aatggtcacc ccctaggcac tccggggggc aaatagcaaa aaaaacgccc  120
cctaaaaaaaa tccaaccgag gccaccgaa cgtaacgaac gaaacgcgat gaatcgagaa  180

```

gcaccgaacg tctcgacgac cacatcacac tcaccgtctc aacaccaacg gaagacccca 240
 accaactcta aaacaccaag acccgcgggc ccattggcca tgacttgaaa ccgagtcata 300
 acctaattccc ctgtgaggca aagccacaat aagctacccg ctaccaaaaa aaaaaaccca 360
 ccacgcggaa gacaccgcac tccgaaagag 390

<210> 30374
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 30374

aaccccatgg atcaatgcat atactatacc acaaggtcca tgagtaaaaa atggtctctt 60
 attttatatg tagatgatat tttacttgca gccagtgaat gggaaagggtg aaacaatttc 120
 tctctaagaa ttttgacatg aatgatattg gtcattcttat gtcattggca ttaagattca 180
 tagagataaa cctcgagtta ttttatgggtt atcacaggaa accctattta accaaattt 239

<210> 30375
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30375

ggactttttc tttttctatg aancncanna tngananatc cgncggagggtg aagaggccgc 60
 ggcanctttt ttcttattaa aanaacaccc agggagggggc gggagacaaa aaaacaaacn 120
 cgggagaaaa aagccaagaa ccccccaacc gaaaagatag caaaacccaa acacgaggaa 180
 cgggacggca gaaaaaaaaa aancaacga cnaatagnac aaaacaccna aancgctaca 240
 agggtaacga aaaaagcaca catgactacc tcaccgcaac gggagaggag cgacaagcga 300
 acggccaagg aacaacgaca aaccgcaact ttctagtgtg tgtatacgag tccaccacca 360
 tatatagtgg acccgactcc gaatatagcc taaacaattt tatagatagt ctatcattaa 420
 aactaatata cg 432

<210> 30376
 <211> 172
 <212> DNA
 <213> Glycine max

<400> 30376

aaaaaaaaaa aacaattgct cttgcacgta tactatgggg aaaataacta ttagccatat 60
cgatcccacg aattatatgg catctcaggt taattacatg tggacgacaa aattaaatat 120
atgaagctga caataaaatt ttctccattt atggctactg tattttattga at 172

<210> 30377

<211> 284

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30377

atcttttagtg cctatcanac gttgacacgt ggcaatcaaa gctactgctt aacgggtcaac 60
atccaattgt gacgtcgggg gaccaacatt gcaatttttt ataaaataaa ggaccaat 120
cgtgaattaa attatcgng gactaaatgc caaattggac ctaaagtang ggacccaaaag 180
tgccaatttg ccttttattt atatacccn acgaaatang tactactagt tgggtgcatat 240
ttaatgggtca aataatgcta agaagtttac tagcagctta tcat 284

<210> 30378

<211> 195

<212> DNA

<213> Glycine max

<400> 30378

gcaagaattg cagggttaaca tctaactgct ccaagtgaag attctctgca gctactatgc 60
tcaaaataat tctgatggta gtcattttta caactggaga gaagatctct atgaaatcaa 120
ttccttggtt tctgtgaaac cttttcacca caagtctcgc cttgtatctt cttttaccgt 180
cagattcttt cttta 195

<210> 30379

<211> 231

<212> DNA

<213> Glycine max

<400> 30379

cgcaactcag cgcgcacaaa cacgcaaaca cacaaaagga ctttctatag caaacgaccg 60

gacaaacagc ggcgcgacga ccagagagca ccaaagggaa ggacacgcag agcccccaag 120
aagaacacag caggctcaaa aaacaaacca aacaccccaa accaaacaga ggacaagaaa 180
agggcagaaa aaagctaagt acccgaaacc agagaaccgg caccaacaaa a 231

<210> 30380
<211> 266
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30380

ncaagctttc tcatagagat ctaggaagga taaagcgggt gaatgaacca attccgctcc 60
cgaatatgac agcctccatt ntaggagcgc tgagcaccag cagcgttcg aggccatcaa 120
gggatggcca tttctccggg agcgacgcgt ccagctcang gacgacgagt ataccactt 180
tcaggaggag atagttcgcc ggcgttgggc atcactgggt acccccatgg ccaaattcga 240
cccacacata atcctcgaat ttatgc 266

<210> 30381
<211> 283
<212> DNA
<213> Glycine max
<400> 30381

aagaattcgc caaggactaa ccgtctgaat tcttcttggt tctctcttct cctttttcca 60
aaagaacaaa ggactaacac gctgaattat tttgtgtctc ccttctccct tgacaaagaa 120
ttcaaaatga cacagtctga gaattctttt gattcttccc tttccgtaat acaaaagtgt 180
tcaaaggact aaccgcctga gaattctttt gtatcccat tcacaaagta tcacaagctt 240
aacagcctga gatctttgtc taacacatta gaggtacat tct 283

<210> 30382
<211> 310
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30382

agctnattat atcgagacga tcaaaattga acaacggaag ctctcgtgaa attaaaatgg 60

tcataagttt taactcggat gtccgattca ngagcttcac atatcgagat gcacganatt 120
gaacaatgga agctctagag aaatttcta ggtcataaat tttcacaccg aggtcctatt 180
cangcgctta atatatccag acgctcgaaa ttgaacaatg gaagctctcg agatattcaa 240
atgggtcatta cttttcactc ggatgtccga ttcaagcgta tcacatatcc acacgcttgg 300
aattgattaa 310

<210> 30383
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30383

ggattntcta ngctcgagaa gtgaaattta gaatgaggtta catntgaagc aaactctcac 60
ctcacacaag tacataacat caatctaaac ttgctcanac tggatttaca cctaaaatta 120
caccgaatnc aaaattgact cctcaacacc caattttgcc ctagaaatgg ctcttggttc 180
acttttgtca tttgtttttc tctctagcat agcctaacct ttctcataag tcttaaattg 240
catttcaagc taggattaac tcattttaac ctccatttac tacagaatcc agatatagcc 300
tgtcaactct cagagcctga ctctttttcc actcataaca ccacattc 348

<210> 30384
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30384

agcttttcatt gttcaattnc gagcgncncg angtggtatg cgctgaatc tgacctccgt 60
gtgaaaagtt atgaccatth gaatttctcg agagcttccg ttgttcaatt ttgagtgtct 120
cgatatatta tacgcctgaa tcggacctcc gagtgaaaca ttatgaccat ttgaaatgct 180
caagagcttc cattgttcaa tatcgagcga ctcgatttat tatgcgccag aatcggaact 240
tttagtgaaa agttatgacc atttgaattt ctcgagagct ctcggtgttc aattttgagc 300
ggcttgata 309

<210> 30385

<211> 495
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30385

gggcagtcta gtttcttatg ntntcannnc nnnnananta annnaccgnc cgngcannnn 60
 agaggggcag aagaggagca cccgggtgat tgatattcgc gcacaanana ncgagacgcg 120
 cgaaagagaa caanggaac ccncgagcaa nncaaangaa canaacnnnn gcacaaggan 180
 cgccgagaca ggcaccaaag acaccgagac gcgcgaccaa gaaccacggc agcgcncgag 240
 aaaaaccaag ggacccaaca gcgaacgcgg aggcgcgacg cacgcgcaaa agaaancgag 300
 acgcccgaan acgaacaacg gaagcccgcg agacaaacaa gggggcagaa ccgacccac 360
 agacgggcga gacaagcgca cagaagagca agaacggccg aaaacgaaca acggaagcac 420
 gcgggaaagg caaaggacca gacccccaac cagggagccc aaccaaccng caaacancg 480
 aaccgggaa agaag 495

<210> 30386
 <211> 173
 <212> DNA
 <213> Glycine max

 <400> 30386

agctttgtat gaggtgaag aagctgttgc tcgtgttcaa caagatccgg tggagattaa 60
 tttatctcag cctaatttgt cacaagatag tgacatagag ttgatggtaa atatttgtca 120
 caagtatagc aatataggag atagttttga tatattacaa gttttattca tgt 173

<210> 30387
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30387

ctacgctta tacctctcca tgtatcgaat agagactctg attccatang tnggaagcta 60
 gnnatcctgt ccttgatagc ttcgatattc ttatttcgaa cacaattggt tgaagaagtc 120
 gtctttgatt ctctcccatg aggttagact atgggtgtgg tgaagaattga gtcattcacg 180

tgcacttccc cttaatgaan acggaagaaa gtgcatctta atgtggctat ctttgattat 240
gagtattctt actaatgtgc atatttggtg gaatcgtgtn aggtgggtat tcagttcttc 300
actgctggat ccataaaatt gagtgttatg gagagtatta atggtcccgc tangaagaat 360
tacttgatgt 370

<210> 30388
<211> 82
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30388

agcttttatc caaaatcctg actcaccata naccttgacc cagagtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa aa 82

<210> 30389
<211> 341
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30389

tgccaccag ctcgcccaag cgagctaggt tgcttcttcc ataangcacc gccttctgga 60
gaacttcta gaaggcccaa gtgggcctgg gttgctattg caccatgt ntactgaata 120
caccctttg cttttttgt tgattctttt tccgtaacgt taaagaatct tacgaattac 180
gtaacgatac ttgttttctt ttogtattgt tatgaaacct tatggatcac gtaatcatcc 240
cttttttggc ttccgggatg ttacggaact ttacggattg cgcactaaca cttccttttg 300
actttcggca tgtctcggaa cttcacgaaa tgcctaacaa t 341

<210> 30390
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30390

ggagtagacc atgtatatca ggnaatcact cgtcccggga tccctagagt caacctgcag 60
gcttgaacc tggcttggtt tggagcttct attggaggct gggatctggt gagccttcaa 120

tgaggtccct ctaatggtga ttttccacca tggagatgca gcggaagaca naggaaaaga 180
 agtgagatga ngcgccatcc actanggaat aagccatgga agaaggagct tcaccaccaa 240
 gatgagcctt ggataagaag cttggagaga atgcttcaat ggaggaaaag aaagagggag 300
 agaaagagag agggggggagc acgaaattga agggataaaa gaggagagaa gtggactttg 360
 aatatgttca caagatctaa ttctcaaagt acataaatgt acacatgctc ttttatagac 420
 ttggacttct ttaaaactn 439

<210> 30391
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30391

aatgacgagt atgtgtaatt gtaataagct ccttagttga tattctagtc ataatnagga 60
 tgcgtgctnt aaagttttac aatgcttgaa tntgtgtgat aatcttgaat atgcatttca 120
 acttactcat ttaactttta taatattgat ccatggttaa ggattgaaat ctttcgaaac 180
 atgttttgga aaataacttaa gtttttatcc cgcatacanat aattgattat atgatgatat 240
 aattgattat cttgatgatg atgcctttgt ttttcataat tgagaaagac tcanaattag 300
 tctattatct tgagtgaata attaattata tggaattgaa acaaatttta ctatcacaga 360
 taattaatta tatgatgata taattgatta tatg 394

<210> 30392
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30392

agggagagtg anncttcggt actactccgc gatttcgagc tcggcccccg gggttccttat 60
 aaggcgacct tgaggcttcc aacnntttaa atctttcctc ctgactactg gctctggctt 120
 tttctcctat caaatcatat gcactgtgag ttgaatattt gccctctgga tctgtaagac 180
 cactcccaag tatctgaacc cttgttgtgg attttatttt ctgcaatatc tttgagaaag 240
 ttagccgcta aggtgatctt attgtcaaac aaggctcttc ttcaagcaaa gttccattcc 300

caccccatgc cttgataccc ttccatggat cttatgaatt gatgcttggt caatgagaac 360
 tgataaagtc taggttcttc tttggcattg acccaaatg aaatgatgcc gaattgaggg 420
 accctcattc ctttgataca ttagatttaa n 451

<210> 30393
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30393

atatatatta gaggatttgt atataaatat gtaaaaatat ataaaaatca ttatccaaat 60
 taatatatat tcaaattgatt ntatattcac acatgtcttg cattatgtta atttatgcaa 120
 acatantttg aaaattatta tctttataag catattcgca tttgcatatg actttttatat 180
 atatatatat ataattttta taagaaaatt agtaataaaa aatatattac attntgtaat 240
 tattagttnt atactcctat catcataagg gggaaaagta tactactaaa ataaaacttt 300
 aaatttattg ggtttatact catatcatca agtgacta 339

<210> 30394
 <211> 359
 <212> DNA
 <213> Glycine max
 <400> 30394

acctttttta ttgcggctct ggaaaacaaa ggtcaggggt ccgcaatatg tgaaaatgag 60
 gttccaagta cttcggattt ggtccgacca tgcccctctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg cgtttacgca acaagcataa tggtaacctt tacgggttta 180
 aaagctctat agttgggcct aggcctttaga gttttctttt tggttaaagct ttgtgtcttt 240
 tggttttgaa tttataatac aaggatcttt cttcatctgt tcttgggtctc taccattct 300
 cattcatttg catggttact tctttttctg aaaccgcaga ttcgatgacg agtcccccg 359

<210> 30395
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 30395

gacatcaacc ggtccataga gtgtaaggag tatccacaag gcgcttctgg caacgacaag 60

aggatgttgc agaggttggg aactagtttc tttctaagtg ggggtatcat gatggacctc 120

attggaacct tgtggccttg gatcttcttc atcaatggaa gtccttgctt cttgaattta 180

atggcagcaa aatggaaaag aagaagagtt gagaggagac accacttcaa ggagaagatg 240

agtctagaag aagctca 257

<210> 30396

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30396

agctaatacc agtatccaga ttaagtggaa aacacgttcc aaaggtggag aatggaaatg 60

gccttctcctca aaaaacctaa tttcaaccac atatgagttt aatttttcga caatatgctt 120

attaaatcat ttaagaaagc tngaactagc tatgcttcaa atggaatcta aacacaagtt 180

cttcaaaaca aatctaaaac atgataatag aaatcaatga agtcacaagt gaaattaaaa 240

agctaacaat agaaaaaata tattgaatca caaattctta tatagttata caaatcaaag 300

ctcattggaa aagaagaaag aaagaagaga aa 332

<210> 30397

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30397

nnaaacggaa cttttagttt ctacncatta aacacaagcc gaaagactan ctgctccatt 60

tacataaaca accaaaccac ttggttatat ttccgcatca tatggataga cctggacagt 120

gtatcatcag cagtaaaatc ccagcaaata atatattcaa tctaatatt aaccggatta 180

ctgcactact tttctttcac aaaaatggaa aaattaccct ctcccatggg aaagttcgaa 240

atgagtntac attagggcaa gtgttgccag actacttatg tatcgaggca agcaccttcc 300

caatggtgca gtgttgctta aggcaagcat atttgcacc taatctacan ggcaaacacng 360

aagatgtaaa ggcatacttg cttctataaa ccatagtagg tccttgtgaa tgccctcaca 420
gacctgagat agttacacct tacggcataa caaggctatc aatctttaca gacctn 476

<210> 30398
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30398

aaaaacacgg ggcgttgtaa tnctacgnaa tananaaagg ccncggggag acccaaaggc 60
gaccagcagg aagcgcaaca ntttttttta ccaaaggncc aaaaccacag gggcgggggg 120
agangcangc caccaacgg aagacacaca cgaagaacaa gggccatgaa caccgggaag 180
aacatccagt gcatcaagat ggccaacgtg acgaaacaaa gacgcaagga aagcccccg 240
ggaacaagcc aaggaacaag ccggaacgcc ggaactgcat gaccaggata tagacggaca 300
aaggaacata cctaggagaa aagagaccca ccacgcaagt cgcaccattg gaaagaagtc 360
caaacaaggc ggcgaaaatg gaccaacaaa caggaaacca actgggcccg ggaaggggag 420
caagaaaaca catccaagg 439

<210> 30399
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30399

aataggtttt agtttctanc tnataananc ngccacgcga cgggagaaaa cccccacct 60
tgtctttacc acacnaacag gggggggtgc acggccaccc agaggggaaa cccccacgag 120
caggggnaca ccacacaaag caacgctcaa ccttaaggaa gactgctaca aacgtcgttc 180
actcacttct ccaccaggct tcctatggct ccttcaatgt agtccaccac atccatcctc 240
cataacaaaa gaggcagctc tcttgccaaa acatgcgaaa ccgagggaaa cacagcctca 300
tcttttatac ccgtcaatgc gacaatgctt cccattccat cacgatccag tattctacta 360
actgcttacg gaacttgcca aaacaccgca tatgcaatag ccttn 405

<210> 30400

<211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30400

ccccggggta ccttagagac cccaggcagg agccacgttg gtgancatcc tagacgcaga 60
 tcgggagcta tgcaatgaca ctcaggtgtc tcgctaacgc caataccttc tgatagaaaa 120
 gtatgaatag gcttagcacc ttgctcgcaa acctattctg agaaaaaaaaat ttttcgggtct 180
 cgactctcgc gggatatcgc actgacccat gactacagat tataagccgc tcatgccttg 240
 tcgcgctcac gccagtctat tctagtggat actgctttct tttgataatc tgaaatctgt 300
 ctagctcaat ggatacaatg gtctgaaga ggagggcact tcctaccccg 350

<210> 30401
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30401

ggcatccttt taccttcnga ccgtgaacct agannacnaa cccacgcttg aatgactggg 60
 atgtctgagt atggccagcg actttcattc atctcttgcg gcagcnggaa cagggcgggt 120
 cttagtaata atatgctctc actacagacc aactgtgaa cgggcactnc tattactcat 180
 gatcatgcat ccgagatgag ctcaaggtgg tgaatccgca cacagcttgc tcattgtaaa 240
 tgtgtgcaag aatatcttga tccttataaa cgaaacgagc atnattctat aaaagtagag 300
 aatgtatgta gaagtgcctc tgtttataaa tcaccgcatt gaataacaat gaatattcac 360
 ttgttgca taatttaa gacacacaat atctaaatgt gatgcagtac tcacacgcta 420
 taacataata gntttgtgac cctccccag cgacaatgtt cccgcgacct gacaggatgt 480
 gccct 485

<210> 30402
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30402

ncccccttga tgcttgatac cacggcgatt tcagctcgca cccgggatcc tcagagtcga 60
 cctgcggcat gcaagcnttt tatccaaagc tcactctggg ggngaagctc cttttttcat 120
 ggcttattcc ttatggnatg gcgcctctct ctacacctta tcctttgtct tcccctgcat 180
 ctncatggtg' gaaaatcacc attaaaggac cccatttgaa gctcaaagat ccagcctnca 240
 tagaagcccc acaagcaagc ttccatcagt aattntccca gagtgtacag gatagcacct 300
 gtccactatc agaaggaaac aacaattaat gtatcaatat atcagcaact aatcatcatc 360
 agatacaaac aacaatcaca cccctcaat taattgtaaa gaatacctca aatccttaaa 420
 tcaaacaccc tcgatttttg 440

<210> 30403
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30403

tatgtataat ttttgaaggc acagatgtag aacgtttaat tagtttantt aacaaaaagn 60
 aaacaacatt tctagcattt gatgagaatg aaatgggata tactacaact tgcacatgtg 120
 taaattttatt cataatagta tattggaaaa tcatgagttg cttgtagcat tcaaagaagg 180
 agatcaaagc aatatTTTTgc gattatgaaa gcccctaaaag tttggggcctt agaaatatgt 240
 agtgcgatat tgtgattttg tntgagatta gtggaggcta gtgatattga aggttgggca 300
 acatatgtgt tacacgagaa attgaaattt aaatataaaa aatagtcgaa aatatganat 360
 aaagaacaac tttggaatgt angaaaaggc tgcataaatt gaaagaacaa attatataat 420
 ggtattgtag tg 432

<210> 30404
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30404

agctttcntt caacgaagag aagagaaaga cgggagattg cggaatata agnagaaggg 60
 atgtctctct cacctctagg acctcacaat cactcacaaa ctcatctcaa gctctcaaga 120

cggcttcctc ttcaagctct ggtctctgct aatcttcaca caacaaaatc tctcaaactc 180
 tttggaactt ggacctttct ctctctataa ctaaagacat gccagagctc ctcaagaaaa 240
 atggccaaac tccatctcta aatctgattt tatgcttaaa taggtggctt tgattgtgct 300
 catgcgctta atgcaactct ga 322

<210> 30405
 <211> 319
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30405

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 ttagtgcgcg ctattctcgc tcaactggatg gactgaagcg gngcgcttag cgggatgacc 120
 cttegtcaa tgcaaatgca caactcattc ttgctctaga ttcttcctcg cactcagctg 180
 aggagtgatg cgctcatcgg atggctcgct aagccagaag attggcttat cgagcggatg 240
 aaaatcaaca cttcacgaac ttgcctagat aactttgaaa tgagaggaaa tggttattaa 300
 acacacaaga tgggagttc 319

<210> 30406
 <211> 103
 <212> DNA
 <213> Glycine max
 <400> 30406

tcgcgaccaa tttcttgttt gacatcttaa tcttgaattc tggcattcat ccactaatat 60
 cacatatact cgcgaccac catgcgtgag aggctctatc ccg 103

<210> 30407
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30407

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 atcctctgaa gaggatcctg aggaggacct anaggagtta cctcctgagc ctgctgtgga 120

tgctcttgac cttccagagg atgatgagga cccacttctt gatgtggatt ctccagagga 180
tatcttgtca gcatttgaga cagactctac agaggagagc ggccctggag ggatagcgaa 240
cagtgaagac ttttcatcat agcagacgac tccttagact aggcttacat actttttgtg 300
cgtgggtgta tctaagtcag actgctangg ttactctttt gatttttggg tgg 353

<210> 30408
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30408

ccacagcaga acaattatga cttttccagc aacagatata accctggatg gaggaatcac 60
cctaacctca gatgggtctag ctctcagcaa caacagcaac ctgctccttc cttccaaaat 120
gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaaccccag 180
aaacagccaa cagttgaggc cctccacaaa cttccctcg aagaacttgt gaggcaaatg 240
actatgcaga acatgcagtt tcagcaagag accagagcct ncattcagag cttaaccaat 300
cagatgggac aattggctac ccaattgaat caacaacagt cccagaattc tgacaagctg 360
ccttctcaag ct 372

<210> 30409
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30409

cgccccgtgg gcttgacnta cagcgaatna ggaacccccg cgggatccaa ggagcgacca 60
gacggaggca tttttttaag cgcggaaccc ggcgcaacgc ggggtgcatc ccggcatgat 120
gctcactccc ttgggcgcgc cagtatgaaa tacaagcgac caatgctagg ccggacaccg 180
ggaatatccg gacataagac atgcaccgtg cctaaggaaa tggcttccca aaagcccaca 240
agctgagccc aaaaaggacg cccagaaaca agagacccaa cgcaacctgc agcagagAAC 300
aaaaagaaac gtacatgact ctccaaatgc caatcagaac agaaagacgg ccaacgattg 360
ccaaaccgtc caaatagcgc gtgctatgaa acaaaaaacg ctggataaaa aaacaccccc 420

agcgaatgg

429

<210> 30410
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30410

nnttatttgg ggaaattccc cnannngntnn nntntnnnnn ntnngcnaaa cngnccnag 60
aggantgaag gacgaggaga ggagacgagc gtttacttag ngttcgacgc cnacnagncn 120
ccaacacagg catggcggct angagcacc naaacacngc aacatccacg ggccacagaa 180
gggacaccgc cgcgagctcc accgccacat tttgacgaca tcgtctttgg agactggaga 240
tacgcaggac aaacacggta tttgaagggc ccatgggtta cagttgccct ctgagaagga 300
gacatgatcc acacgtcagt cttatgggac gacgccctt attctgacgg tcagacatga 360
acctggatat ctgatcact caactgactg atgcacataa ataccgtaat aaaattcctt 420
caacagcacg tgggacggaa aaagtataga cgttagcat cgacaatgtc ctcacattgc 480
ggtgatggag ccagaccacc atcgcgtctt g 511

<210> 30411
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30411

agctttttga ccatgcaaac actaaggctt agggttcgtt tccccctttc aatcaaccca 60
atgtttccaa aaaatgctcc tttaccaagt catgcataca tccaagtnca tttangcatt 120
tcgggaaaac ctttcattgc gttcaccctt taagcgaca ttcttttttc ttcaaaaacc 180
tttttgtgtt atgatccggg aattttccaa agaaaactgg cggtcattct ttttaaaaac 240
atgttggcct ttttagtttt ctttccctta gctttttttc ttttcaataa tttctttcaa 300
gcaaaaaac 308

<210> 30412
<211> 495

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30412

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ccacaaanaa tcaactaaaaa tggnnnattg tctaaacttct taaacgggcc tcttttgctt 120
tatgcgggta acatggaccg ttcaaaagca taaaatcaac acatcacttt actacctttc 180
gcgagaacta cgtangtctg atttcctctt cgatggagga tacataagag caaaaagtcc 240
ccttttgctg accttgtag atgggttagag gtccaatgcc tttaaattttt tcaccaagta 300
aaatggatca ttttaaggtc caatgcctta aatgaccacc ttccaagtaa aaagaatcac 360
ttgattcgcc ccttttgcaa gaactacgta ngctctgattt cctcatcgca attgaggata 420
cccngagcaa aaaccccgct tttgtcacca cccaagaga actgtatggt ccaaccctta 480
tcgttctctc ttttn 495

<210> 30413
<211> 344
<212> DNA
<213> Glycine max

<400> 30413

atatattacc caatttaatc ggacatccga gtaaaaagtt attgtcgttt gaatttccta 60
cgagcttccg tgttcaattt caacgcctcg atatattaca agactcaacc ggaaattcgc 120
gtgttaaggt attggcaatt caattttctc agaactttgg atctaaattt tgagcgtctc 180
gatatattac cggactcaac cagacatctg tgtataaaag tattggcatt tcaatttgct 240
cacagcttct aatctcacat ttggagcctt ctcatatatt aaccgatcc atcgaccatc 300
cgagaaaaag aattgtcgtt gaaaattcta caaccttccg ttcg 344

<210> 30414
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30414

tctgggtggga catcttgact tgctttccaa tcnagacattc tctacagatt ctgccttcnn 60

ctatnmtcag agggggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120
ttaagtgcag atgtccaaat atttgatgcc atattttgac ttcattcttct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattaggact tcactcttct catttgtcac caagcattct gactntgtga 300
agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccattc 420
cagtgatctt tca 433

<210> 30415
<211> 151
<212> DNA
<213> Glycine max

<400> 30415
actccatttt tatatattac aattattcat gtctgacatt tgcattgtagg gccctgcaac 60
tattgtttcca ccaatagcta ggaataagct aaccataaca agagccatac caaggaaggt 120
tgttgattaa gatgatgccg tataaagaaa a 151

<210> 30416
<211> 425
<212> DNA
<213> Glycine max

<400> 30416
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aaaccaccg agcgcggcga gacgaacacg aaccacccc gagaagaatc ggccaaagga 120
aaaccggtca tccacagact ggatacctgc gtcacggaa acagaccttc aacggggaag 180
aacctcgaac caagcaattc gacacattcc aggcgcccgc agaggccac aaagaggtac 240
gtgcattgag agacacagcg ggtagaaccg aaagacccc cagatgacga gaccaaacca 300
ggccactaag gcacccttg caacataaga aaaaaaatt acaccgaacg gtgaacgacc 360
aacataacac ggaaaaaaaa atccgacggc ggcggccgaa acgctcggaa aaaaagacga 420
aaaac 425

<210> 30417
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 30417

agcttattgt attaagtgaa atagaggatg ataacgggtg gataatccca aggaagtgaa 60
 aagcgaaaca agaagaacca aagaggtaga ggctgatca accaattatc acatcctctt 120
 ttccaaagaa gagaaagata agacctagat gcaagttctt aaccctaaag gaaccatta 180
 agatcccatc cttcattgtc tcttgttcgt ctgatagtga ggcaactcca actcccaata 240
 cacatccatt cagtccacca ccagtgtaga ccaagaagcc tacata 286

<210> 30418
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30418

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 aaccattcac cttgggggtgg caccatgtta tttggttttg caccaanagg tgggaaagga 120
 tgggtccatca tgtgcttgta ggtgtacgat aggttaactca aataacctta ggtaaaaaaa 180
 tgcccttggt tatttggggg tagcaaaaat actttcttgg aaaataatng aatggatgta 240
 tatattgcgt gtagggtacc aaaaatgctc ataaatgtat atattgcatg ataggtagcc 300
 aaaaaccttg tggattaatt aactacgtag cacagtacc tattatttaa gtaattaaat 360
 actttgtggg tttagttaag ataggaacaa aatgcctcta caatgtatta tattttgcan 420
 agaaatgcct cacaaactta tatgtattga ttaggttagc aaaaccttgc aattaattt 479

<210> 30419
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30419

ttccaacctt ttttgtgaat tgaggatgga ccctaactt ggggtttgaa taaaaaattt 60
 taaaatttaa ggaaattaaa aatgcctaga attaaatttg tttgatttta atttctttca 120

tttttcaa at gcttttgttg gataaatcaa ttcaaatttc atcaattnta aattctttgt 180
 ttggataagg caattcaatt ttctccatat gcaaattntc aattttatat tntanataga 240
 tgaaatttta atattaaact ttatagaaaa caaacacatc tattttgaaa tattaattaa 300
 aaatattttc atttttaata tttaaaatac taatattgat attt 344

<210> 30420
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30420

actaagctgc tgagtgaagc cccagccttg cctggaaccc ttttgctacc tccttccttn 60
 ncccatnccc ctgttagaat tggcattttt aatagtgggt taatgtaagt atgcatgtat 120
 tcattgaact tggagaanaa tagggtaatt aagccgttgc taccatatgg ctttgaaagt 180
 tgaacttaat atgctgtgtc ttggatatat gttgtttggg tgttgcatgt cttcgtaaat 240
 tgaccaa atg ttgtggttgt gtgctgtcct cttatatatg attcttgagg gatatgagan 300
 aaaagatgga aatttcaatt tcaattacta gtgtcttaga ctctatcatt gagtctatac 360
 tgagagatga cttagtgtat ttatattaat cccat 395

<210> 30421
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30421

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 ctaaagngga cctgcaggca ggcaaccctt ttttttacac tncaaccang ccnnngcgcg 120
 cgacgagtgc tacagncttc attccttctt tcacttttgt tccttccttc ttcttacaca 180
 aattttgttg gtcttccact gatgatgatc atggaaggct aaacactcaa tcaatccaag 240
 gatccactcc aagaaagggt gaatntgagc tctggtttag tatttcaatt acgtgtgaat 300
 gtacatcttt ttcttcaatc atatttttta ttttcatgat tatgaatatg cttaggattg 360
 aaaacaaa at taagctatgg aatcattgtg taatctgaaa tctaatacaca gaatgtttgg 420

acgatattcc aacctaattt gcgacctcaa tgaattaagg attaattcaa cg 472

<210> 30422
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30422

gccgtatann gttttngacn tcnnnnntag nnacnnccaa gnnnnntttt gaagaccccn 60
ttttttgtta aaccccacca ctttcgggg atactcacia atctcccctt gaattgataa 120
agctttctaa agaaattgat actctgtagt cctgaattat cctattcctt ccccttggga 180
taacaaaagc caaggcgtat agatttgagg atcataataa ctaacgtcat acacattgtg 240
gagaactata accaatcatg aaccggaccg tgagccacat cataatagat atctctatat 300
accataggcg aaacatatta attttgtcca catccatgca atatggaaat taaatgaaaa 360
tccatatatt agccaatata tgctaaatca tgtctag 397

<210> 30423
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30423

aaattatttt gcttgatctt aaagcaattc agcccggacc cgcgagatcc tatagaggac 60
gacctgcgcg cgcgcacacn nttttttcca naggaccctc tcgagaggag aagccaactt 120
cttatcatag ctccatactc taaatagatg ggtgcctccg tctgatggca aacctactcc 180
catactcggc tattggatat aatgactccc aagtagagat gggacacagc tagaacgaga 240
atgccactaa ggttctcatg agcccttacg agagatttcg ggccaaggg ctaagtatga 300
gcccacttat ctgtggccat acgagatcaa gggttaaata tatctgggcc tcggatttac 360
ggctacatta tgtacgcaag gtacccttg aaagtaagaa acctcaacca ctgatatac 420
ggcccctaga acagaggtcc gatatgggta caacgaacaa tcccg 465

<210> 30424
<211> 484

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30424

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ggcgtttggc ttttngttct aanctngtta anaacnangc ggggacaaag gacagggccc 60
cgtaacaca tttgcttggt gtgcacncnc aannnccggg aggggacgcc gcgnacacac 120
ccncacacac caagnaccan cngcccgnna agggcgncag ccacaaatc cactgaaaca 180
aagactcgag cggccatctc anggatacca tgtgatatga gaaatgcctt tttcgtgggt 240
agtgttccta cgtaacagtt gaacctagtt ctgcagccct ccatatttaa cacacttatt 300
gagaagatct accgtctgct catcgttggg aaaggatgat aggagaagtc atcaattcac 360
atcctgtaat ctgatttggt aataaaacta ataaattact atattctaac taatacaaca 420
atattattcg agattatcat gcttctctct tgcggttcaa tggcataaaa tccgcttgct 480
cccg 484
```

<210> 30425
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30425

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agctttttat ctttcattgg tgtantttta tccgcttttg gtgctctaaa ttgtgggaat 60
gtgctcanat atgtggtgca attttggttt gttttcttgc ttgattgggt tgaattgngg 120
gtttgtatga gatggcccta tgcctataat gcattttgaa gcaatgggac atgccacatt 180
gtccccgttc tcttgctatt aatgcctaaa cgcgcgccca ccaagtgttc ggtgaaatgc 240
ctcaatggca ttaacgcgtg attttcttan ggaaacaacc catggggcat tttggtttcc 300
acatattttc tatttttttg gaca 324
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<210> 30426
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30426

accccctgtg ccctccgttt gatttaagcc aagcccctac ttttgagggg caactcctac 60
 cttatgaaga ctatcccggt caagacgatg gngaaggaga taccatctt ggccccctgc 120
 tccacctcan agatccatcc ccgcatgaac taccacagct gaacatagtc cgccatatcc 180
 cggcctcatc cgcacccgta aaagaatcta ttccctttgc ggaagataag ggaaagattg 240
 aagcgctcga agagagggtta agagcagtcg agggcctcgg taattacca ttctcagatt 300
 tggcagatnt atgtcttatg cccaacatcg tcatcccttc caaattcaaa gtactagact 360
 nntgatagt 369

<210> 30427
 <211> 297
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30427

agcttttaga ggatgcttta atgaaggana agaaagagag atagtgggag cacgaaatgg 60
 aaggaatata agagggagag aagtgggaact ttgaagtgtc tcataagact ttcattcatc 120
 aaagttacaa caagtgttac acatgcttct atttatagac tangtagctt ccttgagaag 180
 ctntcttgag aaaacttcct ttataagcta aagcttagct acacacacnc cctcttaaag 240
 ctaagctcac cttcttgaga agcttntctg agaaactaga gcttagctac acacacc 297

<210> 30428
 <211> 510
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30428

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 ccacattcat ggtcattgtc ggagnaaatg catganttat aaatcttggc catatgcnc 120
 gacgcgtgtc tcgtagaagc atatccattg ggatataatg atgaaactat gtgcattntt 180
 caggtagaga aagacggcta gagttttgaa ttgccacaaa gtagcaggtt ccggctaagc 240
 gcatatacat cactatgcgc gagatcagtg cgctaagcgc aggatgtgcc ttcagccaat 300
 gtaagctcga gactggcgct aagcccaatt tcacttactt gcgctgagcg ngaggggtggc 360

gcttagcgca ggcgcacgag ttcagagcct atntaaagcc tgtcttgtgc agaatagggt 420
acacaccttt tatgtcatct tctacacact tgtcacgacg accagggcac agaattcata 480
gcccgcatac ggctatattg agaaaaagcg 510

<210> 30429
<211> 173
<212> DNA
<213> Glycine max

<400> 30429

agcttttgtt agatgcccc a gctaccggaa aaagcggctt tgacgactcc aagagaggct 60
atagagacat tgaaaatccg acctctaatt ctgatgaatt tctaaatgat agaatcatgg 120
ctccgtcttg aagactattg acagtccata ctcaagatgg tctcttagcc caa 173

<210> 30430
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30430

nccttaccag ggttagnagc tgtgctgccc ctctatagan taccctgcct gagactgggg 60
cgaaggccca ttgccgttac cncngcttat tcacttttcg gagaccaaaa ccctattgag 120
agtctatctt gtgcagaatt aggggaaccac ctttaccact tttatgacaa cttctacaga 180
caaccagggc ccagaagttt gaaagcagcc accggcctat tgggggaaaa gagccctaga 240
agcagatata tgagcagctt gtgcattgaa gcctacgttt tgcattctga aaaaatattg 300
gtagagagga ctgtatatgc tgataaagga ggggaatccc cttcttggaaggactatca 360
tctttgtttt atctattatt gtaagggttt tgtatggctg ctaacaccct atgacgattg 420
ctatgacact aatgaaacct atatctatga tgggtcatg 459

<210> 30431
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30431

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atcaatttgt gttttatgcg ttgataaata aatataaata atggataaca tttctcaatg 120
atctttagt gcccttggtt tgctgtgtag ctttattatc cactggctag tacaaaaaca 180
ccatcttgca tgcattggtg gatggggcgt ggcaacatta attttataaa cctatttcta 240
gttaaaatta attctaaagt gatatgatgt atattttaa atttttatta taaaactaag 300
aagctaagt tataaaaact aattaattct ggacgtacac aatcaatttt aaactctttt 360
a 361

<210> 30432
<211> 228
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30432

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tagagaaagt tgggtggttg ccattagaat taaaaggga ttttgagat tntattttat 120
tttttggaat ttgaaaaaat taaaaaacat tgttaaaaaa aaaagttaac gaaatcaaat 180
gataatattt acggagaggc aatgcgattt ttgatatag ccttatct 228

<210> 30433
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30433

agggagtacg atgtatctcc gnatttataaa gncccgggac ttaagggacc tctggaggcc 60
cgtttgatcc anccgaaaaa acgggcgtgt atgagaaact cgacataccc acacggcaag 120
caaccatgaa tggcaacatg ggtcccagaa tatacttgaa agccggtgga tagagtccac 180
cgacataca gccagggaa gcttactaac aagccacgct atgacacgaa gcaatggtat 240
ttatgacaaa acaccctgcc tctactatgt tagcgaaatt cctgatgtcc ttatcgcaag 300
atgatccgta aggtacagcg caagagacat taggtttcct aatacacaat aagtgggagc 360
gccctcaatt cgtaaggag acagttggtg gcacattatt tcc 403

<210> 30434
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30434

nttctttttnn ggatccccnn gntgcntcgn gtnanttana cnaccncact cttgcgagcg 60
 agctgttgag acacacacaa ccggttagtc agtttttgac accccaggcg ccaggaggag 120
 agcgcaacac caaaggagac aagacacacn caggcccgac gaaggggaag gagatagcgc 180
 tcgcggcacc cgggtccacg agcacaaaga gcggccgggc gaggagcaca gaagaacaga 240
 gccgcgccaa aactcgagcg tccgcccccg aagaaaaatc catcgcggga gacacaccac 300
 agggaggggac tcacgcggat cgccagacga tagtaacaac tgtgacgac gccctaacca 360
 tgatgacaaa cgtccccccg agatcaagtc ccatcaccat cggaacgaca aggaatcagc 420
 tgtgaacaac tggacctaca aatggccgac atgaaacata cagctctata cgatgagaga 480
 cacatgcggg 490

<210> 30435
 <211> 238
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30435

agcttttagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcgaanag aatagaaggg aaatttccaa tcaaagaaaa ggaaagaagg 120
 aagatttcca atcaaagaga aagccaaaaa agaaaagatt gaaaattccc aatcaaagag 180
 tgggagaaaag caaaaagata agaaagaaaa ttcccaatca aagaatggga gaaagtaa 238

<210> 30436
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 30436

tgccaactca tatgagggat aaacacataa gatcagtcct gagaaaaaat gtatcattac 60

tgatacacac caatccatgt catgaaaaga aatgtatacg gatatactat caaatatgat 120
 tgcaccccaa tttatacaaa tgggtgtgtt tcttttgata tatgaaagaa actttgatca 180
 cgctttctgg atctacaatc agatggacgg tataaaactta 220

<210> 30437
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30437

agcttggttat tatccaaatt ctacagagata ttactcacca tgagaatgag atcactntta 60
 ataacttcat cttggttaat ttcaccatca atttgaata ttgatcccat aatatactta 120
 aaaactgggtg gtatgatatc caccacaacag tcacacaatg tttttttact agtaattctg 180
 tcaatgatat gagcaattnt tcttattaga atagaccttg actctactat tatagcgaaa 240
 tttctgtaat ttcttttcaa aatatgaacc taaattaaaa gagaaagaaa aaataaatat 300
 atttattata caaaaa 316

<210> 30438
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30438

tgttcgcaca tcgttcgcgt gtatgatatt cactccacaa ttttttaata taagaaaacc 60
 ttcaatccta taacgcacgt ggcgacaaaa tgggcataac tgaatggcat tattgcaatg 120
 cggaagggtat tctgcgcttc actatccatg ttcacacatt atngcagctt gtggttacgt 180
 gagcatgaac tactaccaat atatagatgt tgtttacacg aatgagcaca tcttaaaagc 240
 atactccgca cagtgggtggc ctcttgggaa tgaagcggca attcctcctt ctgatgagggc 300
 atggacatta atccctgacc caactacaat tcgtgcaaaa ggtcggccaa aatcaacaag 360
 gataaggaat gagatggatt gngtcgaacc atctgaccac cgacanaaat gtagtagatg 420
 tgga 424

<210> 30439

<211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30439

accttatcta gggttgacct cggctggagt tgaatacgta aggctggagt ttggctcatt 60
 gcctgtcata gggttttntt aaagctcggc tcggtttaca taaaagtctg gctttgcca 120
 cgagcctatt taaaaacttg cttaaagacg tctttgatta attaattatt ttaaaatcta 180
 gtgaaatact aacttaaaaa agaaacttat aaaatttcgt ataagcaatg tacaaattca 240
 aaaataattg gataacaaaa tcatattgaa ttcaagtcgt taaagtacaa agtatatcaa 300
 aagaaaataa aaagagcata atattaaaa atgtatggat tagagatgat 350

<210> 30440
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 30440

gactgatcgt tgccctttct ctgcgctaaa caaacagaga acgtcgtcgc aagacagccc 60
 cgtatccttt gtattcgcag gtttctttta ctaatttggt ggcttaaaaa gaaaattata 120
 ataaataata agtcgacgcc taaattctaa cttaagtaag ttcaagttag gcaagacgct 180
 aaccatgag aaaggagggg acatgggttaa tgttcccctt cagaaaaaaaa aat 233

<210> 30441
 <211> 286
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30441

aataactatt ttaaaatgat aatttagaca aaaaattaac aaaatcattt ggattatctc 60
 ccaatctcac ctaatacata cttcaggcgg tagctgcgtt gggatggact gtgaatatat 120
 agtccgtgcc tgcgtaaata agattgcccg tggccttcct ttagctacgg gcganacagt 180
 tttatggtgt taacctttct attatcccat cccaaatgct tagacattta agacaagccg 240
 atctacatat taggaaaata acaaagtgtc tcatcataaa aaaaaa 286

<210> 30442
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30442

nggagtgtgt tcatgagaac gcaccaana aactcagcct ngctgtgagt cccagaaga 60
 ttttaattggc gaccatttat tattttttaa ggaccataaa aaatgtagga gtctatcttt 120
 caatcttctc tcaacatcat tcaatatctt tcaactgttt ctacaaaaat atcttgaatc 180
 attcctcttc atcttccaaa agtcttgggt tcaacacttt cttttccaaa acaagtcttt 240
 gtcaaaaact cgtgctatca tatttttcatt ctctgtcttct ttcccaaaga caaagactaa 300
 ccgctgattc tttgtgctct ctcttcttac aaagatcaag gacaaccgct gaaatctttg 360
 ttcttcttcc cctagcaaag attcaaagct aaccgctgaa tactttgttc cttacaaga 420
 ttcaaggata ccgctgaaa 439

<210> 30443
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30443

agctttgttc ttgacanaaa ataacatttt gaatgggtgtt aatatatata ccagtttact 60
 aatgtatata tacttgtttt ttttaatatg agtacgttaa caaattatac ctagatatta 120
 tcttacaata aaccaataat ataacttatt aacacactta aaatacacca ataatatacc 180
 tagatatattt aattaatata taaatagagt tatattatta ttattaataa atactccaat 240
 atttctatga taaaagcaca tgcactttga taatgaaaaa ttacctttct tataaaatat 300
 gatggttcta tgaatctagc atactatgaa taatatataa agttttttta ttcataaata 360
 tcaaa 365

<210> 30444
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30444

aacatctgga ccttaggtgc cttttttaga gtaaaatttt aagttaattt tgggggatna 60
 aaaccattct tagagtccaa attaaaaatt aaaaattcaa atcacaattt gtggttgtac 120
 acaaccacca cacacgttcc agggcaaaaa attcaaattg agggcccat tgtggcttaa 180
 acaacgggtg tgcgtggcaa attcaatggt atcactgaca acccatcata gtccccacg 240
 catcttcaag agctttcaat anggacanat ttangctcca aattgcaagt ccacccccgc 300
 aaagccctca ccctacaccc tcacagatct ggttgctgat gtagaggcat ccatcggagg 360
 aaaggcagtg gtgcacaatg tcanggttga gccataaag gatgtggaag gccgacttga 420
 tgaagaggaa gtcacgtca at 442

<210> 30445
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 30445
 agcttttaat ttttaacgg acatcaaac agagcagtgc attaccaatt taagtactac 60
 ccaccaccaa gcaaagctat gttgaagata tacttttgta actacataat attttatttt 120
 ttcagttttt acaataggat ttagtaaata agttggtgct ctatatttta agagtaagtc 180
 agttctaatt gattagctta gtcaaaaagt ggctcctatc tt 222

<210> 30446
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 30446
 ggcccgctat gtaactaggt tctatctact gcaactgcta ttatcccaa tctttattgg 60
 attttatata agcaaatgaa gtgtgaggaa aagtaaaaat tggatcataa agaagaaaa 120
 attgtgaatt agttgtacat acttttgaat ttgcactat ttacgagtac ttaaagacaa 180
 tattacttat ataatgatta tctaaacag 209

<210> 30447
 <211> 179

<212> DNA
<213> Glycine max

<400> 30447

ctgagtaggc tgctgtatga gatctctcag aaggactgaa tgcttgggca cagaatctac 60
tacctatagt cttgggcaaa gtggaaaccc ccaatccacg gatttggata tgcagcttag 120
tggacaagga tagacaatat agctactttc ttttttaata tacctatgtc attattgct 179

<210> 30448
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30448

naacaggaat tttagtnant gcgaactata gaaacacaac ccgggggggat atcactcgcg 60
ggtacgaacg aaccgcagcg atttgctatt cattcgccac ccactgacga gagcggggtg 120
atgaggccaa aagcctgaga gctacggagc ggcccctgcc gtagacacag aaagcaaccc 180
ttggagttgc tgatgctgag acaagagcag caactcccac gtcaactggaa gcagcactcg 240
agcctctaaa ctcagcatga ccagacaaaa cgacgcgcgt caagaccagg agaagagaac 300
ctggagcagt gtcatectca gtgagacaag acgaagggga ggtgctgccc gttataagag 360
cacgagatgc ctaacgaaac gagacattag aagccacaat gccgacagcg ggggaatgat 420
attcatgtgc caagaccaag ttccggagtca acatgtctgg atggaccagc tacgagataa 480
cttcctccg cgn 493

<210> 30449
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30449

agcttatatg aacaaaattg ccttaatcat tccaaatatg catgtgaatt angacgcac 60
aacaagaatc aagccaagc tattgtgcaa gcaatcaatg gggcaaaaca cacccaatga 120
ttataatgat ggatggctca nattctcaca aaggtaaaat catcactttc aaattgagct 180
ttcaaaacta tcatgacatg tagagaagaa tcaaggattt caagtcacaa aatgtcaaga 240

actttttattt tcaaaacaat tacccatttc ttgaacatat cctataattc aaagaaaaac 300
atg 303

<210> 30450
<211> 134
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30450

ntgtcctcag atcccattgg tgggactagg ctcaatttag tcggttctcc tatgnntaga 60
ctaacttana ctaagcttca tcttcagatc ccatttggtg gactagactt agcttaaata 120
gcttatgaaa tttt 134

<210> 30451
<211> 244
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30451

agctngtgaa ccgatatatc gataatattt tagatcgaaa gatccttccg gaaaggaatg 60
taaaacttta tcattctgaa tttgacgagt ttaaaataga attagagagg cgaaacctgc 120
acaaacgtct cgccaacctt caggaaggaa gcatagatgt ggcagtgggt aaggaatttt 180
atgccaatth ctatagtcca gcaaataag ctcttanata tgctaaaaca agaagccatt 240
taat 244

<210> 30452
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30452

ggctcaacta caaccttatc gaggcctca aacactattc gtgnctccca cttccagctn 60
tgtttactat tccatcgacc gacagaacca aggggatgaa ctccaatctt cggtcgacgg 120
aggagtggagc tctacaacan agtcaatgag cacctagtcc ttgatggcac ctcttttttc 180

aaagatgatg ccatacttgg acaattcgat caaccacttc accatccttc ctcccaaata 240
 ggggtttttac agaatttttc agattggctg atccatttgg atgactactg ggaaactcta 300
 aaagtaatgt tgcaatctct ggacgtgatt agcattgccca agaccattnt gtctaactct 360
 tgataatgcg actcaacacc ccacaaaaca tggctgatga agatgttgaa gaaatagagc 420
 agcacactca gt 432

<210> 30453
 <211> 240
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30453

agcttttttt accatgagat tgtttgaggc cttatgtttt tcttgatctt gtntacttga 60
 ccttaaatac atgttgaagc aatgcttaac ctttgaatgt atggtgaact aaccttgtat 120
 taatcttaaa gcaatgctta acctttgaat gcttggttgaa ccaaccttgt atgaacctac 180
 attggcatca tcagaaccct gtatacatat attcacaata ggtacccgac tacgtgtatt 240

<210> 30454
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30454

gggccgctgc cattacgacn acnnncncta tnganacnca agccancngc acaaagggca 60
 cggatggcac ccaaggggaat gattaattca gcccccaaac caaacngagg ggacaacaca 120
 annacaaaac aaggaccaca tgccccgcac gcaaacaaag acagcgcta cgcaaagaaa 180
 atagcccgcc acggaaagag agacacacaa tgcgctggca gagccaggag gcaaggacca 240
 accaccgacc ccccgccact agaccaaaaa tatcaagggc acaagcaagg ccggccacga 300
 agaacgcccc ggataacgcc ccgctcgagg cacaggagcc caagaaaaca gctacaacca 360
 aacgcgggct ccttggccta agaggccaaa gaagaagccc cgccaaaaac caggacacgc 420
 tcgacn 426

<210> 30455

<211> 376
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30455

 agctttttatt gttcaatttc gagtgtctcg atagaggatg cccctgaatc ggacctccga 60
 atgaaaagtt atgaccattt gaattttctcg agagctacct ttgttcaatn tcgtgcgtct 120
 cgatatatta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180
 cgagagcttc cgatgttcaa tttcgagcgt cttgatatac tatgcgactg aatctaacct 240
 ccgtgtgaaa agttatgacc atttgaattt ctcgagagcc tccggtgttc aattttgagc 300
 ggctctaact gtgatgcgcc tgaatcagac atccgagtga aaagtatgga ccattgattt 360
 ctcgagagct cccgtg 376

<210> 30456
 <211> 349
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30456

 tccttgtgtt cggactctca gccacttatg atagccgtcg atgatcccat tactgcttcc 60
 cctaagctct ctgtcctttc ttcacgccgc atcccatgcc ttgcgaactc cttggagtac 120
 cctcgcgttg tggtcactga naccctgtgc gatgaaaggc gtgatgcttt cgtctaattg 180
 cgctcctctc atggggtagc caagctgtct tatggcgaga acgggattat aattaatata 240
 accccttggt cccatcaagg gaacatttgg acatccttcg catgaagata gaatcttgat 300
 tcttccttcc ttctagcgag ggaaccaatt aacagaacgc ccccatgc 349

<210> 30457
 <211> 206
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30457

 agttttatatt tctgattgng gacctgtggt ttgtgcaagc gcgtcaaaag tctacgcacc 60
 ttgaaatggt cttgatggat gcaaaggat gttgcgattt agcttttgct ttgtttaata 120

atgagatacg gattatgctc tgctttgctg attgggtggt ttgatccccct atattgagtt 180
gtaatttatg ggatttggtt aatcat 206

<210> 30458
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30458

nnggggcgga gggaganann nnnnnnggat ccccnngna tnanactnng nanaanannc 60
nnacnnancc nntnanattg cnacatgnng aggttaggac acagtttgca tanettaata 120
tcgcnangc aaactgggag tctggtgcat actgaaagcc catgaggccc actaaacaaa 180
tctaagatag ctgatgaatg tgtatactaa tgaatccaac gctgggacgt cagatgacaa 240
tggatacacg atggtcagaa agacaaaatt tggccacata tatgttaaga ccatgtcctg 300
cgcacaccct attgaagagg aggttacaag actgcatctc tcaggttcta aggcaagaac 360
gcatttccca gagccataca tacctaaaca ggctctccta tggatgatcc taccatgagc 420
ctgcggaatt tgagcacaga nagacacatt catcacaata cacgcactct gttagatttt 480
aaagtgggtgc gaccttcggt cattgaaatg 510

<210> 30459
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30459

gaagttcctt gattcccaat tgtanctccg ggntaaagag atttgagaag gtttgtgatt 60
tgaacacaan gccacggggg gttttatata attatcacct cactttaatg ctgctatgct 120
cataagtaat tgatatgttc aacgttataa ttgtatacgt tgttcatacg ttacatctct 180
agtgtatcaa ccgcctcggt gataatatta gagcatggat gattgggata ttgctgttat 240
atatattgct ttaccgcttt tcggtgtcat ggctaaatta ttacctttcg ttgctaaatg 300
cgtaatccgt acagacgatg atctacctct aatgctatta tcatgactcg taactaatat 360
tatgaatact atatctcttc gtgtttttca tagatgttca ttcattactt acagtacttc 420

tcgtcttaca atacgaattt atagccgtac tcgtgtttat agtatagttt atacacttct 480
actcatctac tcg 493

<210> 30460
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30460

ggggcgtgaa tcatgacatg gacnccnncnn nnntaganaa anccccggag nangaacgaa 60
agagggggga cgaaggatat ttccccccca cgccaaacgg ggggggaggg aaaccaaacc 120
accacacgac aaacacgcgc agacaagacg gaaccagaaa aaaaagagaa cggggcgaac 180
cagccgacgc acccagcgaa gcgcctaaaag acaaacgcga ggcccgcaca aagagacgca 240
gcagaccag ggggcgcaca ggaagagggg cacaacaaga gcaaaaccca gcacaccgga 300
gaccggagcc cagcaaaagg ccgggacaac gcagcgaacc acgcccacga agacagcaca 360
agacgccgca caggaagcgc aagcaggcg 389

<210> 30461
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30461

ctcatcttgg gggagaagct gcttctttca tggcttattc cttaatggat ggcgcctnct 60
ctcacctnct ttcctttgtc ttccgctgca tcttcatggt ggaaaatcac cattaaagga 120
ccccattgaa gctcaaagat ccagcctcca tataagctcc acaagcaagc ttccatcaag 180
tggtaatcag agcacaagag cttcaagtag gtgctcctta aacctccatt aattntttt 240
ctttaccttc tcttccattg ttgggtcttc atttttatcc atgtatctcc tcacatg 297

<210> 30462
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30462

cggcgcaagc gctgagacct ctgactagn gcn gatagtt tttttatcg cacatcacta 60

cgctgggcgc atcatcttta ctggaagtaa acttcaagca gtgggcttag tggagatgat 120

tgttagtcaa tgaatacgac taacttttgt gtaagatatc tgtgaaaatt gtatctaact 180

cctcccatth atggttatth ggtagtgttg taattacctt ttgttaaata taggtcataa 240

gtacttagta ctcccattht gtgtatttaa taatcatttc ctttcaattt caggttaatt 300

aggcaagtht gtgaagtgct gaatttgata tgctcgctaa gccaatctgt cggcttagcg 360

agccatcccc tgagcgcacc acatttggtg attatcgcta gacagaatct tgaagaagga 420

tgagcttgac cactcgct 438

<210> 30463

<211> 216

<212> DNA

<213> Glycine max

<400> 30463

atacacttcc ttcaaagtga agtgtgtagc ctttctccat catttggcca atgcttagaa 60

gattttcttt taggttgga actagtaaga caacatggat gaatcgctta cttttatctg 120

tctccaccgt tacagtgcct atgcctattg attctaccac actttcattt tccagtcgaa 180

cttttacttt tgacaacttg gcaatgcctt tgaaaa 216

<210> 30464

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30464

ggcagaatga tccgtcagat cnancnann nanaannnac ctncgtagt cttcatctt 60

gttttaaaac acgaaaggag ggtantttta ttttgatnct anggncggaa gtgagggaga 120

gaagcttaat aaagttactt gacaagagag gcttattaaa gtggaatttc aaaattgatt 180

cgaaaaacca cacctggctt tcaccaacct taagttattc cttgacaata gatgctgtga 240

aatatcatat tgttcgcgaa ttccaggaaa ccctaattgt ttcaaaaagg cgaaaactgc 300

cattaaacta ctaaagaaca tgaaaggcct tgaggaaatg ttcacatttc aaaaagcgac 360

ccttatggag ggtttcaaca tatattgaaa tttgatactg aggacaatgt ctcaggaggt 420
 acgaatccgc ttagacatgc gaatgttatg aagttgagcg ataaacagta atacacc 477

<210> 30465
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30465

aggacgtcga tcacttgtat ncccccaat nttaggataa tcnccgggat cctatatagt 60
 cgaccatgaa ggaggcaagc gttttgttct ctttatctaa cactaatcct aacgggggct 120
 taaatccctt aaattcctaa gctacagcta agtcttctac ccaaaagtta agatagaaaa 180
 agagaaaaag gatcaaggaa cttacttgga ccgtgtatga acgatgcttc aaagtccaaa 240
 aaggcccaaa gagagttcaa atgcatgatg tgcaaatttc tttggagaga aagaatgcac 300
 atgcgaagtt tctgtactat aacaaatttg agagggaactg gtgggttcact cactttaaca 360
 cgtttgaact ttccgttaac gggacatttc gctaattgagc aaaaaatact attgggttcta 420
 aaccaacttg cttacgaaca gggctn 446

<210> 30466
 <211> 254
 <212> DNA
 <213> Glycine max
 <400> 30466

catatgctga caatagccga gaaacccatg aatctcttct ggggcggaga aggtgtctgc 60
 catcgcttg gccttggcta acaatcgggg aagttcttga ctcccgttca atgaaaagca 120
 caccgatcca tccacatggg tgctcttttg tgtaaagagt cgatccccct cctctaccct 180
 cttttccgct atacttgtgc atattcgctc gcatectatg ctcgtaggcc gcggtagacc 240
 ctactctctg gtac 254

<210> 30467
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 30467

aaatcctgac tcaccataaa ccttgaccca ggggtgagaat gtcaatcctt accctcggaa 60
gcaaaaaaaaa gaatagaagg gaaatttcca atcaaagaaa aagagaagga aaatttccaa 120
tgaaagcaaa ctaaagaata gaaggaaaat tccccaatca aagagtggga gaaagcacia 180
agaaaagaaa ggaaattccc aatcaaagaa tgggaaaaag tttaaaagga agaagaataa 240
ggaaagaaag ctctgatca tggatcgaag gaaaaacaga aaaaat 286

<210> 30468

<211> 487

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30468

agaagtttag ttcatgnaga cgncacacta tananactaa gcttctacct cgaaggncca 60
atccagccgc atataatatc gagaaccttc taaattaacc aacggaagct ctcgagagat 120
cagatggcat anactttacc tcggaggtcg attcaggcgc ataatatctc agaccctaaa 180
ttgaacaagg aaagctctca aaaattccaa atggtcataa cttttcacac ggatgtctga 240
ttcaagcgca taatatatcg agacgctcca aatttaacaa cgcaagctc ctcgagaaat 300
accaatggtc ataacttttc actgggatgt ccgattcacg cgcataatac attgagacgc 360
ctcaaattga acaacggaag ctctccaaaa attcaaaggt cataactttt cactcggatg 420
tccgattcac gcgcatacata tatcgagacg ctccgaaatg accacggagc ctctcgagat 480
attcaat 487

<210> 30469

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30469

tantgcacaa ccncaagcgn cgcccaaggg cggggctttc agaancagga cctcccttcc 60
aatatgacca ggaccagagc cattaccttc gagatgacaa ttggacttgc tcatttcctt 120
tcagagaaat tgaaccact tataattgac cacagatgat acattgagaa gtcattagaa 180

tgggaataag cactgcataa taaaacttca cactagtatt ttgggacata aagcacaggc 240
 atacatatga ttaattcaga taacatccaa tgtttattga tgtcctcctt tgggtgatca 300
 cccacacaca acatatgaac atgatgatgc taataaaaat cttgacatta tgtgggcaat 360
 taatatgccc taactgtagg tgctan 386

<210> 30470
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30470

gcgatgctat ttctttatnn ctnncannna naganacnncn ggcgagacca ggcaggnggg 60
 aataacgagc ccccccatg atttagttcc acgccccan naaaaaaagg cgcgggagac 120
 cacggggaca cccacacaaa gacccccaan gggacacact accnggaaag acgccncgga 180
 cccgccaaag aaccaacan gggaggacac ncacgcaagc gggagccaag aaacaagcgc 240
 gggaaaaagc gcgcgaccaa caaagcggca agaacnggcg cgccaacgca caggaaggcc 300
 accgaaacag anacgggatc aaagggaaac ngacagcccg aaggaccaac cacacagaag 360
 acggcgangn caacnganc cagcagaggg aggccactcc agncgccccg cacacagaga 420
 aaagacaacg ccgacaacga cggcgaggan gaagcccatt cccccgcaca gcaagccggg 480
 aagacgagcg 490

<210> 30471
 <211> 347
 <212> DNA
 <213> Glycine max
 <400> 30471

agctttatgc cctcaagcag cgcttttcac atgctgcacc attgttccgt gatagcatgc 60
 acactttccg caccaacttt ttcaatgtta ttgagtataa gtagcatccc atctgttttt 120
 ttttcatgat gtcaatgaaa tgaatatgca tggcatattg acatcagcta atttataggc 180
 tcaaagaaag taggaggagg aaaaccaatc aataaatcat ttttggagg ctgaatttca 240
 cccaaagaag gacctattgt tattattaaa aacagaccag accttactca cttgccaaag 300
 ctagctcaat tgacatctta atacaccccc taacccaaaa tggacat 347

<210> 30472
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30472

nggacttagg ggcttgatnt ctannnatng anannnacna ccgtngaata tntggataat 60
 tctgacagga cactgatttat tatattgcga ctaatgatna naggagagcg acccaatgag 120
 aagccgacac tgacggaaaa tcagaggaag tccctaatta aacctaaaac aaggaaacaa 180
 gtgagcaagt ctttttttct tagtgtgagg gatcaacacg caacnttttc tcttatatat 240
 gtctttctta acccctcaac aaattgtata tcttttaggt tattgaaaat tgtaatagaa 300
 cattaagagt atattgtttt tacaaaatag aaaaatatat tttagcttgc ataaataatg 360
 ggaaacttta tagtaaaaaat ataatacttt gaggatataa attctggtgg aactctatat 420
 atatatatat atatctatat gtatatatag atatatgtat atatatatat atgtatctat 480
 att 483

<210> 30473
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30473

agcttttgtgt aatcgattaa acatatttgg taatcgatta ccagtgtttg tttctgaaaa 60
 atctaaagat gtaactcttc anaaaggttt tgactttntc aaatgggttt taagtttttc 120
 taaaaagtta taactcttct gaatgggtctt cttgatcaga catgaagagt ctataaaagc 180
 aaggctntgt tttgcatttt gaatcaatca tttttccaat ctttctaaca aactcataca 240
 atcttttaca agccttgaat ctcttgaaat ttctttgaac ttcttcttct tctttgtacc 300
 aaaaactttc tgaagttttc tgggtttcca aaccttgaaa acttgtgcta ttcattcttt 360
 tcattct 367

<210> 30474
 <211> 346

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30474

gggtannaac gaaatgttgt caaatacaat aaaagtataa tttgtttata ttntnnccta 60
nacaatggag gatgtcttca agcgtgatcc gtgtgccgcc ttcacgtga cctgacataa 120
acattgcaact ctacattgac acccctagtgt atccttaacc agtcttgcac gacacgtgt 180
gctttcgtgc cttcagtcac tatcctgagg ttgagcaacc actccaacct ttctgtaatt 240
gcttggcaag cctcctatga cattgacaac aacagataag gtattaccat attgcataat 300
taaattaaat gaaattaaaa agtacatgaa tttatatgtt accact 346

<210> 30475
<211> 318
<212> DNA
<213> Glycine max

<400> 30475

aggctgcgac tttggtgacc caaacacgct atgggggggga gctctcctct aacttgcgcc 60
acttgtttca tcgctaataa tcaataagaa tctcatcact taattattta acgtccctga 120
gcattaaaaa tattccgaaa cattgaatta cgctcttttt ataatcatct ctttaaaaaac 180
tttggaactt agagacagat ttaaaataaa attggaaacc tgaaaatatt tttattactg 240
aattttacta ctaaatttta aagggtttttt tacaaatcaa ttccatttct aaacatatgt 300
tgaaacgatc aattaaat 318

<210> 30476
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30476

gggtcaccca cgacccccan nataaaccac cgaccgaaac gagcgagaga aggaagcata 60
tttatcgagc cagcccacca gcgagggggg gccaggaaac aggaccaca ccccgangcg 120
gaaagaacca ccgcagaacg caacagaaag aacgcgcggc accaagaaca cgcagaaaca 180
cccgggaaag accaccgcac ncgacggaag ccaaagacac caaccccccc aaagaaaagg 240

aacccaancc cgaacggcca ccgacgaaaa caagagacca cccacacaaa aggccacgga 300
 gaaggcgggg aaaacaaacc aagagacgag cgcccacgga cggaaaaaga ccgccacgga 360
 aacagcaggg gacg 374

<210> 30477
 <211> 250
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30477

agctngtgng ggtcgtgggc agactcaaaa ataatggaat gtgtagtggc tttgtcccat 60
 acctccattg cagatcagtt gtgcctgagc ttgcttccct atgtttatta attttgttca 120
 tgtttatgaa ggaatcgaaa ctttctgccg aggaccataa cgttaaaaaa ttatgcatat 180
 atgaacaaaa ataaatgttt aaaactatag ggactataaa gaaaaattat cacaactatc 240
 aggacttaaa 250

<210> 30478
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30478

aggagacca tttcatgcca tcgtacnnac nnnttagaat agccttccta ctaccagcta 60
 ataattaacg atgcactaag accattcttt acttcttaan gcgngnanga atcgaggatc 120
 agtatactaa gccagactac aatgtaacct ggctattatt catactgtgg ttctaaaaaa 180
 agaaagaaga gtagatcgcc ttgcttcata taaaagaaag taaaagaac actgtcctct 240
 gtatttgtgt ttttcaatac aaaagaagaa gataccctga gaaaactgat cctcctcagt 300
 cacctttttt ctaccacatt aattaattgg agcaacaagc tgatttcttc tccacacaaa 360
 cagaccactc ccctcagggg ttatgtttac cccacaaca taatgcactg cagttaatag 420
 gggacataat aatgtttttc t 441

<210> 30479
 <211> 289

<212> DNA
<213> Glycine max

<400> 30479

atggcatgat gcagatatca ccacgtactc aactctgata aggacactta attgtgcctc 60
ttcatgcctt agtttgatgc acttggcaat accctcaaca atattcatgg aaatcacaca 120
aaggactaag ttcaagccta ataatcactt catgcaatat tcttttatcc attttgactt 180
caatgcttta tgggaaccca acatcattac atcaccaata gcattccaca agaaaccgca 240
ttctaagggtt tgatgtaaaa taaaaatcta ccaataccat tcaatttgc 289

<210> 30480
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30480

nccgggggaa ttttgnangg attncnnata ggnacnncgg nganaaaacn atgaagccaa 60
agattaatatt tttctnanca aancennagg ggcgggttca gaattaggct gcatactata 120
aaagtatncc ccataccgaa taatcaaaaa taccctcata cctttgagat ttaaagcaaa 180
cctcttaaaa agtattcagg tatccggcta tgccaaatcc ttgaatgctt agaatcctta 240
ngcctataaaa gcctctcaaa agtattcacg tatttgacta ggtcgaatac ctgagcactc 300
aaatcattag gcttataaag cctctcaaaa aggattcaag atatgggtaa gctgaatacc 360
taaactctta gactccttag tottataaag ccctaaaaaa tatcatggat togactaagc 420
cgaatagctg aactcanaa tcttaggcatt tatgtcctca t 461

<210> 30481
<211> 240
<212> DNA
<213> Glycine max

<400> 30481

tgttttactt gagaataaat cacttaatca tatgagtgc tgcgtattg cctatctgct 60
ctccgacttt ggcatgaaca aaaagccgag tgcgtaagac atacatgatt tagaaaaaaa 120
tcgtccacat agcgtccatt gtgcaatcag tcataaaagc atctggacta atcatgaagc 180

aggacatgag taaaccactt taaaatataa accactactc gtatgacata actcataaat 240

<210> 30482

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30482

gggactaggt agacatcgaa ncgnaantt agatacnatc ctatgactng acactcagca 60
gagcaagctt tgatcatttc cttaacacng ncaaaggaga gagggagcaa taatgaaaaa 120
aacatgacac ttgggtccaa tgatgcacaa cctcacaagt acagggatca gtcaggcat 180
gacacatcaa aggaagcaca tccactcaga cacacagata agcccccaa atgaaccgcg 240
gggttactcc cactcgcatc cagaaatcac aacaagcacg aaacactaag gtcaaataag 300
ctgaaacctg aatgggctgg ccacacatct gtgcttttct agacatataa aacactcaat 360
gatcaacgag agcaagaaaa tgcagttgac ataacgggca cttatacctc caaaccattt 420
tgtaacaagt tccctagaga tgaattgacc catcatattc g 461

<210> 30483

<211> 201

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30483

agttttgatt tccttttagn aggggaannna tgcggggcta agttggagcc aaaccagtt 60
tccctcatta agaactagct cattttcttc tctattgcct ttaattgaat acacctttgt 120
ttggttctct atttggttct taaccctctc atgcaacttc tttacaaact ctgacctaga 180
tttcccttct ttatgtataa a 201

<210> 30484

<211> 233

<212> DNA

<213> Glycine max

<400> 30484

atgctttgct atcacttggc cacctcgtag catatatgct tacttttggg ttaacataac 60

tgacacaatg tcacttactt cactaacctg aagccaagct gaattatgga gaagggagga 120
 aaaataatca ctcaaaatgg ttcaaaaaaa caatgaccaa tatggaacat tcatgaaatg 180
 aatgctagtg aaagagatgt ctataactca acaatagaga aagtgaagat act 233

<210> 30485
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30485

ttccagcctt ttatgccang gttttaatcc gaagtccaaa cacttccttg tgctttttga 60
 cctttgtgaa agtgaccttt ccagggatat tccacggagg cccttctagg ctcttctata 120
 ttggactttt cttgaattca aatgttagtt attcanacgt aatagagaca aatggaattt 180
 gaataanaca gtacatgtgc acttttccttt tctgtgatac ccagtccttg agagactaga 240
 cacatgaatt tatcgtatga cagtgtgtta tatttgtatg aacaagacta gatgcttact 300
 aaataaagag agctgaacac tagattaana tagagcatac tctatctagt tgtgggcat 360
 attcctttta cata 374

<210> 30486
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30486

tttaaaacta gtcactnaaa attttattat ttttgaaaga atcttcaaaa acaagtcact 60
 tgaaaattgt gactttggaa agtatTTTca aatcagcact ggtatcgatt acccttaagg 120
 tgtaatcgat aacacatcaa cagatgtgaa cttcattttg aattnttgaa aatcttaaac 180
 atttaaaaca ctgggtaatc gattacatga ttatgggaac tgattacagc tttgaaatag 240
 tttaaaaaaa tgctgggtact ggaatcgata ctactttggg atcataccaa gagaacactt 300
 ggtaaaattg ggaaacttat gtctactaat gtttgaaaaa gtnttagtac ttatcttgat 360
 tgaagcttct cttgattctt gaatcttgag tcttgaatc 399

<210> 30487

<211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30487

agctaattaa tgctaaccac taccattgca catgtctctt aaaccgtggg ggaaacacat 60
 gaaattcccc accacaatct acccgacttc gacccttgcc tcggatatgc cactgaaggg 120
 caagcagttg gtggtatacc cctgcaaaac actttttgagg gcccctcagt atcacccaaa 180
 actacacctc ttgcattcca caacaagtaa aaaccctcat gctatggtag aaatgggaaa 240
 gttggatcat ctagaggaaa ggctcanggc cattgaagga ggtgaagatt atgcctttgc 300
 taacctagaa gagttgttcc tagtacccaa tatcatcacc ccttcca 347

<210> 30488
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30488

nnncggttct aatactangt natctancat anaaacacaa gcccgcttg gttanacatg 60
 aatgggacct gaattgggaa cttgattata tatttcggcc aaaanggaag gagggaaaaa 120
 gtggttttca aaatctgcac tttatgccga attttgcttg tgaaatgtgc cgcagaattt 180
 tgtattagtg ccaaaaaatg cttggtgatt gctggatgtg aaaaggggta tacctatggg 240
 ggtctggaca tttgcctacc gaatccaacg ggtaaaaatg agacttatgt actagagact 300
 tccaagtaaa ttttcgagtc gatccaaccg tttacgaatt ggaacgaagg aaatgttact 360
 ggtgtatttg tatgtgaaaa gctgtgattt tgagttgtgt tttgggtaga gttttctgcc 420
 tttgccctat tttgcttggt ttggtagtct atgatgattg gatgtgggaa tacctcgatg 480
 ttgtggaag 489

<210> 30489
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30489

ggagacgacc cgaacacagc ataaaaccgg ccccgaggacc cataaggggc cccaggggcgc 60
 cccccctttt gccgaaaccc ccacaccncc gaagggggggg acgaaacacn agcgaaacac 120
 ccnccccaca caccaccagc aagacaacaa caccaccagc cacaccnaac gaggaacaaa 180
 agcaggccac ccacaggcga gggcaaccca cacacggcaa gaccgccgaa gcgccaaca 240
 gaaccaacca aggcacgacg agaaaggaaa aaaaagcaac caccaccgg aaacaaaagc 300
 caaccggga ccagcaagca aggaaccca cccgccagcc aaacagaaga acngcaacac 360
 gaaccacc 368

<210> 30490
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30490

aatttttttt tttattcann cnnanaanaa caagggcccn ngngggagga agcagaaacg 60
 natttttttt ttggaccoga aacacgggag gggggggaac ggaagcacc cctccccgg 120
 ccnngaacc cccacaatac accaggccat agaaaccccc cgggtgaaaa gcaaattgtct 180
 aaaacaaaaa tagctttagt caaacggag gaaatcgccc ctogaaaaat gagcaactga 240
 tagaaggagt ttccttcaa tcaaagtatt tcaagcagtt gaggcctgct aacataataa 300
 cctttaactt gaacgcactg ctaggttagc gccccctcct gtacagggtg caagagggtg 360
 gctcttcct atagcatatc gatcctctat attgtttgac agtaactaag tt 412

<210> 30491
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30491

gtgctattga gatgggttta aactttactt caccagagaa gcctaaatga gccttgaagg 60
 ataacctagt ccaaggtcac cagatggaag cttaatagag gagcatgac gttgattgat 120
 gtaagaaaga aggcctnctta tacatcatgt anggaaagat atgcaaagg gagacgaatt 180
 ntgctcaaga tgccccaaa gaattgtgac acaagagatn gngtcacatg agtatgaaag 240

gttnngggagt tctagcaaat gatcactttc canacatana ngagcagcca cttgaatcct 300
 acaaagattg tcttcangta aacgatcagg gtgttttcaa aaattgt 347

<210> 30492
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30492

cccaaagcta catctccaan aaaaacncca cggggcccaa aaaagaacaa aacagntttt 60
 taccaggcgg gaaggaacac ggggggggggt cgaagaaata tccacacctc tccatatccg 120
 caaaacaaaa aaaaagaagg ctgaataaca aaccctggcc aataactaaa aacacgaaaa 180
 gaaaaccag ccgaagcaat aaaaggacac atgacacacg atcaactaaa aaaagcaaag 240
 accatacagg tcacaaaaac ctatggtcca tcaggcgtga ataccaaca aattaacca 300
 atcagagaca caacccccaa agtccgaag tagagcaaaa gaaagacctg gccagagaag 360
 ttataggaac taatcaaaaa ttgggcagac ctacg 395

<210> 30493
 <211> 337
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30493

acctnttttg ccaatgngct actttcgcca ggaaggcatg gacaatcgca acttgtgcaa 60
 catgtaaaac acanatggga tggcttttta cagccaggaa caaacaactg aaaccagct 120
 atttcttgcg gattccgagc tgtcaacttg caaaggaaat acgcaaaaac ctttagtttg 180
 atatgtatgc agtcatctat ccaaagctta gtgaaagcca tggtcaagta aactgcatg 240
 gttatgtata taatgcaact ttctttagc acttcgcatg ttggtatact tatattaata 300
 aaatatgttg caacagcttg gaagaaatta agtcaca 337

<210> 30494
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30494

ccgggggatt cccgagatnc cnnataaanac cngcagagcg aactaggcat tgcgcccacc 60
 ttactttttac ccccgcccccac aaaagcgggg aatttttcac aactactccc cctcctggag 120
 cacgtacacc aagcaccatc tgttccacac ctaacgtcca taacgtaagg atttcggaga 180
 cgaacgttct aatattactg tctcttctca catactcatt gaagtgaatc cagtcgatga 240
 tttccttcac cacgaactgc atgacgnttt ccatgcacat cccttcggac caaacaccag 300
 tttgtaccct ttogacacaa cctatacttc tttaaccgtt ttcagagcat cgcctacatt 360
 gagcaacctt gggctctgaa gtaaaaaaat tcacttgcaa cgttcgtgtt tgttttcact 420
 cttggacact cgagaagact tcctctcgaa g 451

<210> 30495
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30495

ttttnttccc ggtttcgntt agcttncnt agngcgattn ncgagactcn gcccnngnccg 60
 gggatatctt ttnagagcga cactctgcag cgctgtcgca cncnntttgn ggataangga 120
 cgannacacg aacacngcgc gggaggactg tttgtcatga tatggaatac agcatctatt 180
 cagcatcctg ccattctctc tatgcgcgtg attcgcagcc tgtacatggg atctctcata 240
 tacaaggcat tgcgacactt tctacttggt aagcccacta tgtagctgca ctttcttgca 300
 catgtcatgt cacttcgcta agacgattgt tggatgaact tcccttcccg cgcaaagaaa 360
 gcacaatgat ctattttgat gatagatctg cacaacatct ttccaagaaa tcagtgttcc 420
 ctttaactaac taagcctatc gataccaggt atcattttca tacaccatgc cattcccaaa 480
 gagatagact attgacn 497

<210> 30496
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30496

ntcattatcg attgttatct aacatnaana aaaccngcnc ggaacggacc taccgaaaag 60

agagcaattg aatcagacga caacnggaca aggcagcgag agagcagnng aaccaccccc 120

cgcaaanggg gccngcaaac ccgcgcnaag aaggaagaag ctcccacnag caccggaaaa 180

aagaccaag acaannnaga gggaaagaaa aangaaaggc ctgagaaaag aacccccaaa 240

aaaagaaaga ggggcagcac catatacaaa gggagggaga atgggaccat aaatgcaaat 300

gaacagcaag ctcaacgcaa cgcttacaac ataacaaca cagtatatta ttttaacata 360

cgagttaacc tctggccaac aatagagatt gactaaaagg agatagaccc atagtcgaaa 420

ag 422

<210> 30497

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30497

agcttttatt atttttgcca gctgcatcan aatgggaaac aactggaggt ttttgagtct 60

ttgcctcttg gcattgattg catcaactca tgctcaactt cagcttggtt tttatgctaa 120

taatcgccca aaagcacagc aaattgcttt gaaatttggt catgaccata tccataatgc 180

ttcatcacta ccaactgcat taataagaat gcactttcat gactgttttt gtaagggtacg 240

tgcttcaatc ttttaagcttc tgtcattttt acttaacaca tacaatgtta 290

<210> 30498

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30498

acacaaaaac cagcttatca gacaagaagt aaagatattc aagagtttgt ttatacgtcc 60

taagcttaaa gggttattta tagaaggaat ccattgaagt acaaagttgg ccaaaaatta 120

agtaaaaagt tttttcaaga aatttactct cttgtaatcg ataccaaagg atgtaatcga 180

ttaccagtgg ccaaaactga tttacgacag ctattaacat ttgaattcaa aatttgcatt 240

gtgtaatcga ttgcacatat atggtaatcg attaccagta gtttctgaac gttntaatc 300
aaagtttaaa gcttttaatc gattacacac atactgtaat cgattaccag aggagttttt 360
cagaaaacat tctcaacagt ctcctctttt tatctgtttc t 401

<210> 30499
<211> 76
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30499

agcttttagcg tgaaactnta acttttcata ttctttcaat tagatatattt taatattggc 60
cttttattta tctttt 76

<210> 30500
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30500

tatagtttaa atcaaaatag atctttgtat aatgggtgta ttttgtgctc tttntatgaa 60
tcttcaagag ttgtgggtaa ggatttcccc ctttcttcta agtcttgana atccttaaga 120
atanttttcg tccactagat acctttttgt ttagtaatgc cttgacctcc tcacaaacaa 180
atgtgtcttg tacatcacta gttgaagtgg tttccaagaa aaaatcaact aaatgagctt 240
gatgagtttt ctttaagatcc ctatgctctc tttcaagatg ttgaaaactt gtttagtttt 300
ctataagctt tagagacgtg agcatatata gataaaagt gattgtaccc tttaattaaa 360
tattttctag attcanatat tatctct 387

<210> 30501
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30501

nnnaaagtat ctttgatcgc taccnggntn ntagannann cnncccgag gcacnaaaaa 60
ggaccctcaa gcagcgcgca cncgtttttt tatgcgcaa aggaagccca ccaggggggg 120

agatattcgt tatctaaact ctcaaaagtg actgagaccg tgatgaatat agacgagttc 180
 gagtcacaat ccgaatatta ctctcgaata tcggccgtag ccaggcggca tgaaagaaag 240
 gcgcgcaatc ttgagaaggg atagaacggc aaaaattctt cgactttgct ctccaagtct 300
 cactgaatgg tgcccccta gattgaaacg cagatgttac caacctgact attgatcaac 360
 tcatggcgac ccttccatcc tattgaaaca ctccaatgga cacaacctag acaaatgccg 420
 cctcagagca cgacctcggc tccacgaaaa gaaccn 456

<210> 30502
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30502

ataagcagta cagaagcann cnatagaaac nccgcgagnn cacacgcaag caagaccaat 60
 ttatttttttg ccgcnaacaa cagccgaggg gaaacacaat aaacaaccga ctggacacaa 120
 agaaacaaaa aaaagacaca cggntgtacc cctatctgca cagaacaaca acatctaaca 180
 tagctttact cggaggaaca cgaaacccca agaggacaga tggaaactac cctatgatca 240
 acctggagaa tatcaatggg gaggagagag agactatgtt ggaccagaat caacatgctc 300
 gtcagaaccg gtgagttttg gaggggaacc acaaccacaa actgctttac aaaacctttg 360
 gcatactcac tcaaagttat ttagagctag gcatccgcac cgtaactgtg cctaaagggtg 420
 gacatataaa ngaagacaac gaacggggcg cn 452

<210> 30503
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30503

aggagtgnnn ctgaacaccc agtaaccgac cccgggatcc caagacacca gaggcggcaa 60
 atttttttact ggagcacaag gaaacagccg ggagngaaga aggggaccaa cacacccang 120
 ggccaacag gaacacaacg ggcgcgaggc cccagaagca ggaaagagcc ggccacaccn 180
 tccacatgta aagccagaca acttctctct tagcccatga cccacgacat cgcgtgcac 240

cacagatcgc atcccaaata tccgaggcac aacccttttag accgtaatat gtggcggaac 300
caggcgagca agctgagggc gggcccacaa agcgggacct cggactggaa caatagaaag 360
gcggtatggc acaccactag cctctatcga cagccactca tgacacatgt gcgccggcct 420
gcgcaccttg cgacg 435

<210> 30504
<211> 480
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30504

agggatantc tgaatcttga nncnnnnnnn nnnnccgagg nngcnnccagg gntggggggag 60
aaancttttna tacaattccc accngnggan acccaccagg agggntttca tatgaagcat 120
acatcactgg ggggtataat tccaccttat tgaaaaattt aatctgcata atatcacttg 180
tgctcaattt cttgtgacca agtaacattg cacaatccat ttcattccaac atgtcatggg 240
tgtggccaaa gcaacatatt gtacatacca atgatcgta ctaaagttaa cgtgaccatg 300
aaacctagca ttgcaaccac cttgtatcat gttttcctca cgcttcctag ttgtcaatgt 360
cagaccacta tcattctaat atccaacatg agagcanata aaaaagttgc tgtaatgttn 420
tcctattat gaattctata acagtacttt tacggacaaa ggtaccatta tatctagctg 480

<210> 30505
<211> 141
<212> DNA
<213> Glycine max
<400> 30505

agctttttctg ttaattcatc tctgttaatg gaaacgatgc ttattaaggg agtagttgaa 60
aacaccctgt atatcactag accctgtgaa tgaagtgaat tttatgcatg ttaaagtctt 120
cttattttttt tttgaaaaac a 141

<210> 30506
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 30506

tcttttnggac cttgaacaag caattaactc ctctttttaga ttcattgctat gngctcgcga 60
 ctgggtctctg tcttcccttc gcaacttgag ttcactattg ctaccccata gagctccgcg 120
 aaatatgttc cggccatact cttccttggt agccctcttg gtctcttggt caagggctct 180
 tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
 caacttgaac ttctccttgg caagtattgc ctttcctaac tctcttttga gagtttggac 300
 ttcttcgtcc tcttcgggtg cttcaaaact ctcttcgctg acgactttt 349

<210> 30507
 <211> 157
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30507

atctatcata ccttctctcc atattanctg agtccttcat aaaaatattg gagaataagc 60
 tgttctgaaa tctgatggtg ggggcaactg gcacatagtt tottaaattc cttccagtac 120
 tcattcaggc tctctccact gagtngtcta atacctg 157

<210> 30508
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30508

tctttgtggg ttgatgaact ctatgcaca tattgtcttg atcattgctg acatattctc 60
 aattaggtca gttgcctctt caggaatctt taacttttat ttttccccct gctgaagcat 120
 ctagcagttg ctttggttgg tgggtctcagt cctctataa acatattcaa ttgagttggc 180
 tcagagaacc catgggtggg agtctttctc aataaacctc tatacctctc caacgcttca 240
 ctcaaggact cgtcanggaa ctgatgaaat gaagagatag cagctntccc ttctgtagtc 300
 tttgactttg ggaaatattt cttcagaaac ttttcaacaa cctcttccta aggtttcaga 360
 ctgttacctt taaatgagtg 380

<210> 30509
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30509

attccaacct tttttggtgg ttaagttctg gatattatcc tttccaccca ttctgaaaat 60
 cattccattt cttgataatg ccctaaaata gaaattcaca tcagaaaaac tgtgaccatg 120
 atggtaaacg tcaacagaga tcatcacctt ctgattctg tatgtatata ctcttttgg 180
 ctgatataa caaaaaatac taattaagtt ggtagaatat taattatcca attcatttaa 240
 agataaccct tttcataatt atcttcttgn acttgattca gaataaagat gcttggaaca 300

<210> 30510
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30510

nnaaagacaa gcgttcaagn agnatcttca caccatanan tactcaagcc tntanaaagc 60
 atgcaaattg aggaaggaga ggagcatctg gatatatgtt gtttctactc atgaggtatt 120
 ctagattaaa gaataccttg atcctcaact agttgccaag aaaattctca taaacctaca 180
 tgatattata ttttttgta tatgccctac attaaaaata gcccttagtg cattgttagt 240
 ttggggggtt gactgtaaatt tattttgggtg tccttttgtt gagttgactg aacgaaaatg 300
 gagaagagca ctacacagag gagcangatg aacagaatgg agaggaatga agccaagatg 360
 aggcagttgt agtggatcag attctacgat ggtgcatact cgtaatggta caggctgaca 420
 aagtgggtcg aatatgaaga gcccgtcagc taagcattgg tggggggtga aacaaaattg 480
 t 481

<210> 30511
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30511

cggggaccct tatccannaa nnaaccgctc accctccatn agtcntttac caatggacca 60
 tatgtcaaac aaacggctct tgtgaataat tgtnnggacc cgggtgtacag ggagggcttg 120
 ttgcaggaca agattattgc tatctatgtc aacattaaca atcaatgatt ttttggacaa 180
 atatcaagcg gactgaaaac aaaacagggc taatgaataa aagaggactt tatcgatcct 240
 cttttaatct tcataattgt ggcactatgc attggaccca aataaaaatc ttaattttag 300
 tatggcctac caaaatagta taccg 325

<210> 30512
 <211> 180
 <212> DNA
 <213> Glycine max

<400> 30512

atatgcacat agaggtcata cagcaatcat agaaccaaac ttagaccaag catcatacaa 60
 atgagtaaaa atatacctcg aatgctgtca caataatcac agccagaaag aatgcataag 120
 tcaataaaat tgggccatgg tcataattag ctctccaaa atctgaaacc aaataaatac 180

<210> 30513
 <211> 237
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30513

tggtttccaa tttttctgat gccacaggctc gggatatgga taagattata aaaggaaggg 60
 ttgaaaaatc tgaaaagggg ggcaaaatgg gttgctttaa atttgtagtg gctccagct 120
 gcaacatgct gttaatgtgc cattgcaactg ttataacata tgcataataa ctacaagtaa 180
 aagtcttgct ttatttaaac cttttngtgg taaatctgct tattagaact caatatg 237

<210> 30514
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30514

gcgcgatatt ctgtanttca acacaanaaa cnaagcnggg aggaactnga ggcgaaaaac 60

ccagggaccg tcattttttt acacggaacc acaccaggng gggaatggga tacaatattt 120
 tacatcgaga cggacacatt tggggatact aggcgattca ggtatactaa atattaaaaa 180
 tcgaattagt tgaactttta atttcttaat taaatccttg tggaagagac gaataggcct 240
 ttctttggag tatgataatc actgaacctg tgagtacta tctttataag attcgacagt 300
 cacatactca atatgatata ttctcatact attaagtgat tatatttatg cctctagtga 360
 tgatgtggta atgagcatac atgcatcatg cagattacat gcatgcacgc gtgtaaataa 420
 taatggaacg tgccatgtgt catgtgcttg cttctgtcga gttctgaaat cagacattat 480
 ataaagttgc tn 492

<210> 30515
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30515

aggggacctg actcgcgatc gagccgacgg ggatctcaag gcaccgaagc agcacngtgc 60
 caaagccnc acgcncccc agagggatcg gacaaaaaaa acccgccacg aaacgaccta 120
 ggctataaaa gaaagtacaa caaacacggg aggcaacgac aacgacacac aaaaatgaca 180
 aacgcaccgg ggaggggaac aaaccgacgg ggaatccagc taagaagcag cgggacgccc 240
 atcatccagc aaccaagctc tgcaccatag aagcaaactg accaacggaa aaacgcaggc 300
 accacctggg gggaaaacaa cgaccgacaa ggctgaaccg caaaacaagc cagaacaaca 360
 acacaacca ggccggccac agaagaggcg gaagaaacgc gcccatacag gcc 413

<210> 30516
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30516

atatgaacgg tataagatat tataccaaat aatttttgtt tggtaggaa ccttataaaa 60
 tagttaaaaa aaaaggaaac ctgattataa aaaaaagata tgatttttgt ataggacct 120
 aatagcatat gatttttgta tagaaacata ataggatagg ataaaatatg atntttat 180

gctctagaat acagaaacgg tatgaaagaa aaaagaaatc taataggaat agaaaaagga 240
 ttaacatang anaactaata aaaataatga gaaatataaa ggaacaccgg actcacatct 300
 tgt 303

<210> 30517
 <211> 223
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30517

tatggggacc catcacatgt ggcctaggtg gcggtcggca atggtcacaa caagtgttcc 60
 acatccacaa tgcgcgcata aaccacccat cccctgttgc ccacgtcaac tgagctcacg 120
 tactcccacg tagcccatat nctcgttct ctcaacaccg ggtccccatc aatccttcca 180
 agcttncaca acatccaagc caaacaacat tcacacagca caa 223

<210> 30518
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30518

gggtgctgan ccatgagact actgcacncc nattnngnaa cnaccctgtg tggttgcgcc 60
 cggcactaca cgccgtgccc tttgtttaat ttgaatccaa gccccatcct ttcggggggc 120
 aatgcccctc tcattacctc tatcccgggc aagacgatga ggatggagat acccatcttg 180
 gccgectgct ccacctcaaa gatccgtccc ccatgaacta cccaacgaa catagtccgg 240
 cctatcccgg cctcacgcta acccgataaa gaatatgatc ccttcgctga agatagggag 300
 agatcgaggc gcttgagaga gggttaaacca gtcggggcct tgcaataaccg atatatgcct 360
 actcattacg atggcgccac aatcaattca tccagttcaa ggccggcttg tattacaaag 420
 gacactgtcg atgggctctt cgatgtttgc gaagatgggg 460

<210> 30519
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30519

naagcttttgg ttggtccta tggcatngnn gnnngcatcc ttggatacat ttcttagtgg 60
 ataantttgg tcctatagaa gaaataataa aacaattcgg agatattctt gcattgtata 120
 tccccctgc tgctgtgtac agagatccat attctattca ggtgtttgaa ttttagaccc 180
 tctataaata agatttttca tcatatcagt tntctaagt actaaatata gagaagaaat 240
 tgctctgttt ttgccattta atttatagaa aacatttaaat cttctcaaag gggagtaatt 300
 ggaaagaatg ggttgccctaa tttctacaaa ggctgataac tttttttct 349

<210> 30520
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30520

catcaacagc actgacccaa ttattttgta tagaagggtc ctctccttc cgcggagcca 60
 cagcccttgc gtactcaatt tccaatatcc tttcctataa ttgattattc aaaactgtta 120
 gctataatgc tatgacatca taacacgtag taacaatggg ttgtttccta tgtaagaaa 180
 taaagattag agaaattgat aagttattgg ttgtataccc aatttcaatc cctggaattt 240
 caacaacttc cttgtaagtg actaaatggc ataaggttgt agatcattcn gtttcacatg 300
 attgaaa 307

<210> 30521
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 30521

agcttattat atgatgcagc atatttaaca gttttcatag gtgatataag agcatttcac 60
 aacgaacatc atcttttttc tctagattct caaactcata attctcattt tgaaatttgt 120
 tgagtgtctc cagaacttca tccatagaaa gacttaattc attgtctcct tgcacacacc 180
 gaaaggccaa ccctgtact gaagttagta tccttttaac tacttggtct gactcaaacc 240
 caaaggatgg gtctacaagc tcactaagct ttactttttg cacctttttc atggcaagat 300

ttgccaagta gcttcatctc

320

<210> 30522
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30522

nnccccggac taacgtccgt cntacggaca ctatagatac tcagcttgag ctggagaaaa 60
ctggaggagg tttgggtttt acttgctttc tccctgagtg acattgtatt ggtggtatat 120
gagtgttcat ctagaatttt tgtgcatctg catcatatga atagtgagac aaaattttct 180
aagtagaaaa gttctcagaa gcgaaactct ctatttaatt gattacaccc tatcgtgatt 240
gttacccaag tgtctgagct tgcggagtat gtctataccg tttaatcgat atagcctctc 300
gaatcgatac aaattgtgat gaacaatgct gactattcaa gagttctctt tatcgatacc 360
atggaatatt gacactctct tcatagcagt caaactccag tgtctatctc ataccttgca 420
ctacatcc 428

<210> 30523
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30523

agctttaacc tttggccatc atttctgccc caaggcgtga aaggagagca ttttcggcgt 60
cgtgaagtgc gtggctacga gtgggaacttc gaatattcag gtttgggtgg acttctttct 120
ctcttaaatt tcgtgggtat ggggttntgg gagatatgat gggtagtctt gctagggttc 180
tgctgtatga tgattatttg tgaagaaatt tggtgaaagc ttggtgaaat cgccatgttg 240
gatgagttaa acatacccat ttctgtttaa ggtttt 276

<210> 30524
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30524

tgcgtagccc accatctttt catagnagag ttattttattt gtgtctacca tcacgatcat 60
 cggtccctt tccatcattg ngggtaccac ctgngccgcc agatccctcc accttttggg 120
 cgtgttcttt gaaagatccg tccccctttt tgcaaagtgt ctgtaattgc atcctatccg 180
 gaaccatata aaaattgtac tgatactgcc taacaaaggc aaccattang tccttccaag 240
 aatggactcg ggaagattcc aagttagtgt accaggtaac agctacccca gtaagacttt 300
 cttggaagga atgtattagc aattcctcat cttttgcgta ttcccccatc ttctgacaat 360
 acatcttttag atggttcttg ggacaagtag tccccctgta 400

<210> 30525
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30525

agcttttatn taaactccnc aaggaagnen ctcgagagag cttatcaaag aagcttctca 60
 acgtaactac ctatgctata aatagaagca tgtgtcacac ttgtggtaac tctgatgaat 120
 gagagtcttg tgagacacac ttcaaagatc aacttctctc cttcttttcc tccttcaatt 180
 tcctgctccc ccctctctct ctctctcttt cttttcctcc atagaagcat cctctccaag 240
 cttcttatcc aagcaccttc ttggtggcaa atctccttct tccatggcgt attccttagt 300
 catatgccat gacaattaac a 321

<210> 30526
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30526

cacactgtat taacatgaag ctgacgattt caccaatccg gatgaaagta tttgtgagtt 60
 tggacttgag tgtttgtgag ccaccttgat gtcaccctaa catcaagtgt tggacctgag 120
 tgtgtagaag tgatctctat tgntcagaga gcaatctctg gtgtgtattt gatttaattg 180
 tatacaccgg agagtgattg agagggagtg agaggggttc tcatatc 227

<210> 30527
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30527

ttcnttttgg nttaagctca cattggcatc acccgcataa tatacggact tcaggtaagg 60
 cagtctgcaa ccacgttgca taactgacga cctaaataag ttgtcatgtc aaacaanatt 120
 taaaactaaa atataaataa natttaacta atttcgtcct attcaataat atcatatgta 180
 aaaaacctta ttcaccaaac aaaatatcta aaatatcctt aatttaataa aagtttattt 240
 taactacgtt ttttcctgtg cgagtaatga aatgatactt aaaaaatatt aatttttaat 300

<210> 30528
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30528

nccttagggg aaattgccga ngtatnnctg ngaanaatan annacncaac gctaagggca 60
 caggtagatc gtaaggaanc cgtttgattc cttaccaaca gnngcgacac ggagggggcg 120
 cataacatca taaacacaca tatctcagat accttaatgg tgcaatcaca atttacacac 180
 gcatgacgat gcaggggacta ggtactatca tgcccacgac ggcgtatcga gggcgccac 240
 ttcttgacta cagaggaaca catcttcggg ttagaatcgt ggacgaacaa tgcaagaact 300
 acaacgtggc tcaaggacaa gaaataaaaa gacttcccct cgttgggatg ggagacccaa 360
 tgcactttct tcataataga agctcactgc atattgaata cgtgcggaac aatcttatca 420
 ncggagactg taacctaata aggtcaagag tctacaaatc atagatgtaa cctgggtc 477

<210> 30529
 <211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30529

agcttgttct tggtttanac atgattgata catgatttgg gacttgtang attcaatttg 60

ngcaaaattg gatgagggaa agtgtgatat cgaaaatctg cacttatgca aaattttgct 120
gtcaactaag tgcagcagaa tttggctctg tgcaaaaaat gatatgaaat tgctggttgt 180
ggaaagagta gcaccgattg ggttctggac gttttctatc agatcccaac ggtcaaaatg 240
tagatttatg tact 254

<210> 30530
<211> 298
<212> DNA
<213> Glycine max

<400> 30530

tccaaataaa atatttgga acgtctatta gactataact cttaaacagc tactgtgtat 60
ttaacgggtt cattaataag tcagattaaa aaataatttg tcaaattata attttggatg 120
acgcttacgt gacaaagtgg acgtttgata ttgaaaaaat taaaattact tattttaaac 180
aatataagaa ctaaacgtct tcatttagag ataaaagact caaaatctca gattttaaatt 240
aatggtgaac caaaattatt aataaaaata tataatcggtt ttaaatattt tatttttcg 298

<210> 30531
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30531

atctttgccc aataacactc ctaacatcaa tagtaatatt aatattctaa ctcccctccc 60
ctaaaccaa gttcacttag catcacgctt gttacaaagt attagaatgt cgcaatatct 120
ttaatgtatc tcagattatt gttaggatca tattgcaagg tgtgagaagt gagtatcaca 180
atgaaagttt ggcattctaa tgtaaggttt attaagcctt aaccttgagt tctcaactac 240
aatggctngc ttttgtggtg tagttcttcc cagagtctta ataattggta ttagagcttc 300
ttaccatgtc tctatgct 318

<210> 30532
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30532

tagctatnat aggggtgtgta tagctaagct ctatcttctc tttctaagga ggtgagctta 60
gctatgagag aggtatgtgt agctaagctc tagcttcttt aggaatcttc ttaaggaagt 120
ttctcacgga ggtgagctta gttatgagag ggggtgtgtgt agctaagctc tagcttctca 180
aggaagtttt ctcaaagaag cttctcaagg aagttttctc aagaaagctt ctcaaggaag 240
ctacctagtc tatanataga agcatgtgta acacttggtg taactctgat gaatgagagt 300
cttgtgagac acaacacaaa gttcaacttc tctctctttt cttcttcaat ttgtgctccc 360
cctctctc 368

<210> 30533

<211> 277

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30533

ttttgggggt ggccatttct tggatggcct tgattttctc aagggtccact tggaccccat 60
ttctaccaac tacaaaacct aagaagacta tattatctac acaaaaggta cacttctcta 120
tatttgcata gagggtgttt ttctaagga ctgaaagaac ttgcctgaga tgtcctaagt 180
gatcatctag gctcctactg tacactanaa tatcatcaaa ataaacaact acaaatctac 240
ctatgaaatc cattaagaca tgatgcataa gcctcat 277

<210> 30534

<211> 293

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30534

ctagagctnt agctccacat acctctataa tagctaagct cacctccctt gagatgagaa 60
gctagagctt agctacacac cccctatgat agctaagctc acccccatga caaaaaacat 120
gaaaataaca caaaaaagtc cttattacaa agacaactca acatggcccg aaatacaagg 180
ctaaaaccct atactactag aatggccaan atacaaggcc tagacgaagg aataacctat 240
tctaatactt acaaagataa gcgggctcat acttagccca tgggctcgaa atc 293

<210> 30535
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30535

ccaacctggt aggcctagaa cctcctccac caaggaaggc ctaacctact ggaaaacatg 60
 gccactggac cggagaagga aaaagaataa tggaaaacgt cccttcaagg aaaagatgag 120
 tcaagaggaa gctcaccacc atangaagac atgcgataag atcttggatg tatgagaaag 180
 ataattggca agagaaggag agaaagggta cgatatcttg tgctcaaata gaggtctgaa 240
 ctttgaaagc gaattcttaa atgatcaaag gtgacaaaat gcacacctat ggcttctatt 300
 ataccctaag ggcacaaatt tggaggaaat tgaatctcta taacaattca cttgaattga 360
 catgaac 367

<210> 30536
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30536

naacttaaga tcagatcaac cttnaaaaag ccccagctga aacanngtca ggtgcggggc 60
 caaccttaat tatgggttcc aacaagnnnc ccaaattccag gaggaccatg aagggataga 120
 gaagacatac tggtgataaa caccacaaaa atatagttat ggcaaagcat tattttttcca 180
 acctttttaa aaatataaaa ttattaataa tattttccact aattaccata ataatatatt 240
 aatggtagaa atacttaatt cttttaagtg gataacatan agcctcttaa naaattgtga 300
 gcaagccaac ttgttatcta gtccgttctc atacacattc ctaggagnat gtatcatatt 360
 catttttcaa tcanaataag aaataacata tcatataagt tcctaggtgt caggtcaatc 420
 ctattgatat caataaaaat aatttaatac tgctattggg tgtctagcac tcag 474

<210> 30537
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30537

agggagcgct ttgcattgan anncnncnn nnttngnaaa nccgccngga ngganacana 60
 gaaaggcaca agcaggcaac aatttttttc gaaaaaccac cccaccaaga gggggcatcg 120
 gaaaccaacg cacacacccc accaaagaaa cccaccccca caaaggngga ccgggagggga 180
 gngaagaaca ccaacccgcg gnnccggggag cagaangacc accacagagc acgagaagng 240
 agacnctacn ggggccccca ccccgcgag aagaccccg gaaacaacg ggaacaagc 300
 aagngcccgg aaccaaccgc cccaaagcgg agaccataac cccgccggcc gaaccggaga 360
 cggcaaacac acagccaacg gaaaggaggg accaaanaca cccgcacca ggaaggagc 420
 cgcaccggac accgacccca aaaaagacg 449

<210> 30538
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30538

gttcgtagnc atgagattca aancnnnaaa aaagcnngaa anaaancaaa nncnagaggc 60
 ggagaactct tttaactttt ggagccgaaa ccgggggaggt gcaaatcaaa attgcaaatt 120
 gtctctaaat caatttagcc actagtaa atcgattacatc ctctggtaaa tcgattacaa 180
 gcggattctc tcatagttaa cgcttccaga atttcttcaa ctaaaaccaa agtataggga 240
 tctgagggct acaatantgg atttggtcat ccgtgtacac ctaactgaag tggttgaaga 300
 atatagcccc tctaaggtaa ccccccactat gttgcattgg acttatgctc ttcttgtgcg 360
 tgtttataga agaaaaactt atttatattg tatecttgcc aagtgataac atttctttaa 420
 accatcctg ctactttctt aatgttcaga agcttatect cagcagagat tgatctttaa 480
 ccatctgaac g 491

<210> 30539
 <211> 138
 <212> DNA
 <213> Glycine max

<400> 30539

agctcctttc ctttttccac tcaggtgtcc aagtgtggga tggcataggg tggaatgggtg 60
gacagcctca gtaactgcta ccatatcctc atctggcatc atgtaaagag atcctcgctt 120
ctttccacga gccacaat 138

<210> 30540
<211> 240
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30540

aagattaact tcattcatta tatgatgaat tttacgggac gtttaatatc catcctcatt 60
ggagcacaag ttgcacataa acaatggctg agaacatgag acatanatgt tannggtttt 120
agaaggaaat cctgtcatca nttccaagtt attgatattt taagttcttt attttanaat 180
tactctattt tataaatttt aagctaatta gaattgtata tatatgtgga caatacatc 240

<210> 30541
<211> 188
<212> DNA
<213> Glycine max
<400> 30541

tgtgaaactc tgtctgtcac atcattactt aatggacaaa tactaatggc aggtaccaaa 60
gccaaaaaat gagaaacgcc caatagagca ataaaataaa aaattaatat gtagcaatct 120
gaataagggg tatatcttag gtaagaaaaa gatatttaaa ccaattatct tatgaatctc 180
atcttaca 188

<210> 30542
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30542

gccttaaaaa ggggtggnntt gcaccttctc gctattccta tattctggct tagcgagcgt 60
ccgctaagcg caccactcat gggctaagcg cgaggaaaac actagaaaaa gatgagttgg 120
acaggttctt tagcgaccg cttatctact agtgccact tcgtcatctg taacgagaaa 180

gctgcgtaaa gctgaatcga tttagaagaa gttgactaag atcagagctt tgctgttaga 240
 ttttaaagag acaagtcaag ttcaagagtt tgaagatttt gtgctgaaat tgcggaccaa 300
 ctgaacagag ccgttgngct gaatgattgg aggatggaat cctaaggagg tcactacac 360
 tgattntgat ctcatt 376

<210> 30543
 <211> 110
 <212> DNA
 <213> Glycine max

<400> 30543

tgtctgccgg gcagacaacc acaaatcatg tttacaaatc attatgaatt atggcattcc 60
 tcgaaagtag ccgtatgatg cgtaccacca agcgtcatag gcactatacc 110

<210> 30544
 <211> 186
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30544

agcnttaacc aagangggat ggtccatttc aagtacttga aaagataaat gacaatgcga 60
 acaagattgg attgcctagt gagtataatg tgagtactac atctaattgtg ttgacttaa 120
 ctctttttga tgtagatgga gaagccgatt tgagaacaaa tccttttgaa gagggagaga 180
 gtgata 186

<210> 30545
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30545

nggcgattca gttgcaagtt ctacgnccac tatnaatact cagcctccat cattgagtta 60
 agtcaccag gaggaatctg ttaacttggc ttgatcaaga ttaggctaaa ctatcatgag 120
 gcaatcgggg ttaatatctt aggaaacaca ttaggacccc ttgaccttgg ttgaatgaaa 180
 atatttttta acttcaggcc cctataagga agccacgtgt ttctcacatc attctctccg 240

tgattttctt ttgcacagat agttacacac ttgtcatatc atgctatctt acacaccgac 300
cctattgctg aatagcttac caatacacia gtcctcagag ttcatactcg tcttaccgtt 360
atctactttg cgaccgggca cttgcgagca acatagccat cagctgggta ataagaaaat 420
gatttttacia attttgt 437

<210> 30546
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30546

agggcgcgca agcttttcatt ttcaatcngg agncgcncga ngggggcatg actcaatcgg 60
acatcctttg ataatgttat tgtcgtttga atttgctacg agctatcgtg gtaattttaga 120
gcatctagat atatttcggg acacaaacag acatcctggg ataaagacat tgtcgtttca 180
at ttgggtcag agc 193

<210> 30547
<211> 539
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30547

attgttggtt ttttctttga tctacngnga cacnananan acncaagcgn ctagnctcaa 60
tngggagagt ctcgaggatg accgtttata antctgcatc cgagnaaaaa ganagggggg 120
cgngaataga cnaacagacc ccatactcaa cngggagcgn cncgaaaaaa aacgggacgc 180
aaccggacga cccgggaana aaggggaccg gccccgcaan aggcgcacga gacacgcagg 240
cggacacaaa caggaacagc ncgcggacag ggaagaccgg aacacggaac agaccacccg 300
agacacaacg gcaaaggcgg aaggaaaaag gagacgaagg caccagccg gcaaagagcg 360
gagcagaccc ggacangaaa acaggaccgc agaccggaca cgcagcgcga aaaaggacag 420
ggccaagcaa aganngcga ggagcaggag cagcgcgaac ccacgccgac gagggccnag 480
acaaganggc aaggacgcaa gaccacccgg ccgaggacaa cagcgaacgc caccgcgcg 539

<210> 30548

<211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30548

agctttgttc aaaaatcaaa agannnaact ctgcgagaag gttttcaagt tttgtaaaag 60
 ttataactct ttccaatggt ttccattgac tagacatgaa gagtctataa aagcaagacc 120
 ttgacttgca tttccataac tttttgactt aactttttta caattcttta taacaacttt 180
 tgagaaacct ttgctaactt attattcttc ttcttctttc tttgcaaaaa gctttcttaa 240
 agtatttggg tttccaaacc ttgaaaacaa aaatgtggta ttcattcttt tctttctctt 300
 ct 302

<210> 30549
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 30549

cagcatcatc tatggcgtca gttatcttgt caacattggt gaggttggga tcaaagtgca 60
 cttttgtcta ctccaaagca agaacaacaa ttgctttttt cagcctact accaatttga 120
 agggcattcc caacagagtc agaacagctt gtgcatgccca ttcttttaac cctcactcgg 180
 cacactggta tgtcctgctt atgaagctca tttactcgaa acccactctg ctctatgctg 240
 tcttttatgt gttgcaccta caaaaagaat atcaccaata ctttggtcag tgtaaattatt 300
 gaagtacacc aaagacttat atctattagt taatatacat aattg 345

<210> 30550
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 30550

gaagcacccg acgacgcata cgacccggggg acaagacaca gaggactttt tcccacagggc 60
 cgccgggggg gcaaacaacg ccacccggag ccacccaacg acggagccag aggaccgacg 120
 agacaggcga gaccaccaca gacggacccc ccgaaggaca aaaaggggga cagaaccacc 180
 gaagggcgca aacgaaccaa agaaaacaga ggcaaagcca aagccccgaa gaaggaacaa 240

gaaaacagca acggaaagga gagacccccac acggccagaa aagcgccccc

290

<210> 30551

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30551

ggtaggncct gnangatcaa atgnaaacgg ggaaagagga agaaattctc tttccccgga 60
aaagcgggggg tattaaactc tctctcccga tctaacgta ggaataacat ggcgcccgtt 120
cctcacagtt gattatctag gagaaaaaat ttgctttctt aaactagcta aatatttcag 180
attccgaaga acatgcacat atctactaca tggttaacta attttattgt tatccgtaa 240
tccacaaatg gaactctgcg tcgaagcttt ttggtgetat cagctcaata ggacataatc 300
tca 303

<210> 30552

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30552

agggacgtct ctttgtanan caccggcaat ncagctcggc cccgggatcc tctagagcga 60
cctgcggcat gcaagtcgtc catcataccc gaccncgca gggcgagga tgatganaca 120
catcttccga ttcaattggt acatcagata acaatctatt tatatttaaa atcttggtg 180
tatatagtcc agaactttgc taacttccga tagcccgag tattagcata gattgagatt 240
aagaattcgg agggatacgc tactgatcgt ttgatgatt gcactgaata tgtcgggcta 300
cttggcctga cgcatatagg gagccaaaaa agccgcgata ctctgcggca taagaaccct 360
tctctttatt ggctccatt ccaccgaaca catggggaga tttccttcca tgtaaatact 420
g 421

<210> 30553

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 30553

gcatchnagng aaagtcccga nagatnntct nnnnntnaga nacnnaacnn cagagngaaa 60
 caagatggaa gtggaaggac attaccttat ttgtccaacc acggacaaaa ccgagagggg 120
 gcgcaactng gaancaacct atcaaacagc ncenganncc accaaacggt gttggatata 180
 catactttat ctcaccctcg actccattta ggatggctga attattcagc gaacttgaat 240
 attattcttc aacttcaccc tctgcataca tagcccccac ccttattcat gatgatgctc 300
 acgactaaaa ccaagactac tatgtgccgt tatatgttaa tagagaacac aacgaccagg 360
 acagttcctt cgtcgaatat ctctgttata tacgaataat gcgaccctga gcacaacccc 420
 gaacttatat taggctcttc tgctgggtac ataaagagca aaaatgaata aacatattct 480
 tatt 484

<210> 30554
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30554

aggagctatt cgtttgacac canccnnntt ggaaacacgc gccgagatcc ttagaggcac 60
 cagcaagcng cagctttttt tcatggcctc cnanggcgga gagcgggggc tatactcatc 120
 ttcagctcga agcggcgtct cctctgtctc tttcttctcc attctgcagc cgttcatctc 180
 ccagaagcaa aggaatccat tgatgaaaaa gatcctaggc ctacaagctc caatggagct 240
 tacatcatgt ggcacaaaga tcatttttga ctacgtgatg ttcatttgcc tcttccatcc 300
 ttttgttccg tgcattctct ataacaacgt gagcttcac ttattctcca tgtatatcct 360
 ccattgtcct gtgggcaagg agaaggttac aaaagactcc acaaagataa atcgattata 420
 tctaaatcta cacttgtcta gcattac 447

<210> 30555
 <211> 518
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30555

naatcttacg tcangngtan gtacnantnc nananttnag annacntcc ngcgcccaga 60
gaaggagngc acggaggaaa ngcttanctt cnetanaata cngganagca annnncgaac 120
gacgggcgct gttggccaac acannaaagc accacacgaa gggcagcncc acccaagaag 180
gccnaacctc gccttganac gaaggacca ganngccctt nncacctacg aaanancaac 240
tttttggtgg aagtgtgtga gggaacaacc tccccactga gtgtgatcca cgaggcgctcc 300
caaccagaca tactgtaggg gggggttaat atccatttat ttggaagggg aacttgacag 360
ggtgtgaggg tctatctgta ccgggagatc gatcttcccc cttacctttt tgnggggacc 420
gtgcaaggca cgaccacca ttgacttcgg cttatgtggg aacattgaat ggaaattctc 480
caagtgtctt tagcttacgt taccagaac catatcan 518

<210> 30556

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30556

catgattggt acatgatnta ggacttgtat gattcaatnt gngcaaaatt ggatgaagga 60
aagagtgggt ntcgaaatct gcactttatg cagaattttg ctggttgaat gtgcagcaga 120
attttgtata agtgcagaaa aatgcttgtg tatggatggt tgtgaaaagg gtagtacata 180
tggggttctg gacattttct aacagatccc aacgggtcaaa atgtagactt atgtactaga 240
gacttccagt aaaatttttg agtcgatcca acgggttaacg aactggaaca aagagaatgt 300
tactggggta attgaatgtg anaagctgtg at 332

<210> 30557

<211> 353

<212> DNA

<213> Glycine max

<400> 30557

agcttgtcta ttataatta tattgagaac aactgaggag tgttgtgttt tgtacaattc 60
atacataaag tatgtgttaa tagacttctt ggattgtgcc tgaatgaaga ggaaaatgcc 120
ctgaccgact cttcagagtc tacgtcttgg ggataaatac acccggtttg agtacttctt 180

tatgcttgaa ccaatcccac atgattggag cattctactc aaacaacgtg accctaacta 240
 gtctccctat gattttacct agtgagtgc ctaccctacc actgtgtgga ttgttatggc 300
 atgcactcct tggcaccgca cgatgtcttt actaacatgg taccacattg cat 353

<210> 30558
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30558

tattggtggg tttttttcct ttacctgtgt ctcaaagctt ataaaagagc cttctagatc 60
 tgttcttcaa ttgattntgt tcatcaaacc ttttttttct tttttttgct ttttatcata 120
 gtccaactcc ttcacaaata taccacactt tagcaccgac atctcattga attcccactg 180
 ctgacctctc caacctcttg tgtcccttaa tggcatccgt attcactcct cctcgaagt 240
 ctcttgctct ttctcctttt ccatcattgg ttggatcttt catgaagcta gtgcgatgga 300
 ttgnggaggg gaggagagtg tgatatagat gaccattgtc atatctaatt tggag 355

<210> 30559
 <211> 218
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30559

ttattgatat cttntatagc gagcacggat tcttggatag acattaatgg ggatcaaagt 60
 ttgaatacat ggagaaatat gcattcttgc ggtgaaacta ctccacacct atgtcacaaa 120
 actttatctt atgagatgc tctcctataa ctacgatgaa ggaatcaatg attattctca 180
 tttgactttt atcgtaaggc ttaactttta tatatata 218

<210> 30560
 <211> 130
 <212> DNA
 <213> Glycine max
 <400> 30560

tgatcatcaa accaccttat cccttgaggt tcctcaaat gtttatgtat atagtgtgtg 60

gaaggtcaaa tggaagggttc tccatcaagt gaaacaacac aaacttatgg aggtcagaaa 120
atgttgatgt 130

<210> 30561
<211> 187
<212> DNA
<213> Glycine max

<400> 30561
taccacttgc acggtgctgg aactacttca catggacttg atggggccta tgcaagttga 60
aagcctagga ggaaagacgt atgcctatgt tgttgcggat gaattctcca gatttacctg 120
tgtcaactat atcagagata aatcatactc ctttgaagtt tcttggagct gatctacaac 180
ttcatag 187

<210> 30562
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30562
agctttaact ttatTTTTtca taagcacttt gtgcttgtac attccaccgc aacgcaccct 60
tcttcaaaca ttcggtcata ggacttgcta tagagctaaa attctggata aagcgtcgat 120
aaaatgatgc aagaccaatg aaagatctca cctccgaaac tgttgtacgg ctgggccaag 180
tcttgatagc atccactttt gcntgatcaa cggatactcc atcttttagac accacatatn 240
caagaaacac caccctttca accaagatat cacacttttc ctttctccca tagagttggt 300
gtgctcttac ggtctcaaat atttgtttca aatgagtga atgctcctct atagattngc 360
tatacaccac tatgtcgtca aga 383

<210> 30563
<211> 252
<212> DNA
<213> Glycine max

<400> 30563
ttagatatat gtttatgata atacatgttt actctttttt tcttagcata taacgatact 60

caataagtga cgttgaagat gttatagtat agctctgata tgatattgca aattattcga 120
gtc gatgtat atatatatgg gttgtgtctt gtaaacattg ctatgacatg ataatatgat 180
atatgacaat cagtgaagta aacagtgata tgtgagctat gaactgtgta gtcacattcc 240
ttggaaaatc tt 252

<210> 30564
<211> 208
<212> DNA
<213> Glycine max

<400> 30564
ttatcaagta acacaagttg agttttattc acaacattac agtatatctc tcttatctta 60
ctgagagtga ttctcctata ttcttgagtg attcaagaac accttggtg tatcaaagga 120
ctttcacaac tctttgtgtg tagtcctcgc tggaaagagt gattcattgc ttctttcat 180
catcaccact tgtctttcaa accacaat 208

<210> 30565
<211> 303
<212> DNA
<213> Glycine max

<400> 30565
ttgctagaga cagtgtcaat gctatgtata tggtttcttt ctttgtggca ccaaaggctt 60
actcatatca gtgagaatgg gctgaattgt ttagccaaga aggatatgct tctacgattg 120
aagaatgcaa atttagagaa atagtctcat tgcattggtg gtaagaaaac caaagtatcc 180
ttcaagaaga atcctccctc cagaaaatct gagttgcttg aatcgggtgca ttcagatgta 240
tgtgaccctt tgaaggtgaa atcctttagt ggtgcacttt attcttgtag cttcattgat 300
gac 303

<210> 30566
<211> 365
<212> DNA
<213> Glycine max

<400> 30566
gacccgggat cttatgtcgc cgcagctggt atttacattg accctgcacg tgctggaact 60

ctttaatggc ttgatggcct atgcaattga agccttgagg aaagagttgc cttgttgtgc 120
 ggatgattct ccaataacct ggtcaactta tctagaaaat cagacccttg aagtttcagg 180
 actggtctaa acttcaagaa aaaaactgtg tcatcagaga tcatgagtgc catggctaga 240
 gttgaaaaca caattactga atttgccatt gaagcatact catgagttct gcgtatacac 300
 acacaaatgg ctattgaagg aaacagactt gcagagctgt aggcattgctt atgcaagact 360
 tcctt 365

<210> 30567
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30567

nntgtgtggg agattcagat aatcatctaa agattcatag agtggcttgg aaggagctat 60
 gtaagcccaa gggcaaggga ggcttgngct ttaaagaatc cataaatntc aatttagcct 120
 tcttgatgaa gagcgggtgg agcttatgtt cgaatangat gcgttgtggg tcagaataat 180
 cagagaaaag tatcactgtg gagaatcttt gatcccagat attgattgta ataggtttga 240
 gactaatttc tgggtggggcc tttgtaaaac ctggcctgag gtacagaaaa acctttgctg 300
 aaatatttgg gatgggaaca atg 323

<210> 30568
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30568

gatgctcana aacatcaata tctatcactc catcagtagg tctgcccaga tatttggttaa 60
 tcacagcatg ggagaattta acacactntc ctctgacaaa caccttntga tactcatcac 120
 tttttctgtt agatatgtca gagggaatgt tgacaatgaa ttccctgact aagccttcat 180
 agcaatctcc caacttgctg acagtcttca gcagtcagc agccttgatg aggtccatga 240
 tctccttgca atccaatgca gctctttcca gttctctttc caaggccagt cttcgttgat 300
 aca 303

<210> 30569
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 30569

tgtctcagtg gttatgcgag accgagacca acatgtagc tttatcagc aagtaccaag 60
 aagaattaaa tctagccacg gcccacgagc acaaagtggc ggacgaatat gcccgagttt 120
 ggttttttag gaaaaacgcc ataactaagc gcaccccaag gcataccttat cgcaccagat 180
 ccaaacttag gacgatgggt gaccaagagg aagtacagga acagatgaaa gccgacatgt 240
 cggcttatat agagcaaagt tttccatga tggatg 276

<210> 30570
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30570

aaaaanncga cccggctcctt aagtgacgcg gctgcacttt attctctctg aagactgata 60
 ctgcttttaa gcatatatat actccaatgg tccatcgctt actgctaaat gtcaaaaaga 120
 ggcaaccttt aaattaccca cggggaagat ttggggccaa tagctcctcc tggatgaagaa 180
 atgatcccat gatgaacact tgcaggtctc ttgaaacata gtattgcgcc actccgcctt 240
 gttgcggaaa ataggagggtg aaaagaatca tacttctcca ggcatgccaa atcggcacag 300
 gcaaagaga 309

<210> 30571
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 30571

ttacgtgtat gattctcttc atagagtttg gccctcgaaa ttgttatgag gaggcctgta 60
 tatattaatt gatgcttagt taattaagac tatatcgaat agttgttacc gtgataatat 120
 cattgcataa ttttgatttc tattcttcca atacaaaatg gaaggttgag catggattat 180
 tttaaaacat tgtcaagtag gattgcagca atctcaatta tattattgtc atatgaaaag 240

acattgagac atgggaaaaa ttttatgc

268

<210> 30572
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30572

aacctgtact gtgagagcaa gcgcgagagc tcgacgacaa ccatgactac acggtgtaaa 60
cttgaaggga gggggcagtg ccatgtggcg accggtatgc gaaaagtgaa gtggaggtct 120
caagatgaaa gaaagtggaa actaagtggg gcggaagtta actanacgca atacaatatt 180
taaactacac atataatagt aactttttta tgaaaaaata ttatntaggg tatttgctta 240
atctacttta tcgtgaaaga aagtatgcaa catattatca aagttttaat ctagtgccgt 300
aaaatactta ggcttttcta aacactataa aaaac 335

<210> 30573
<211> 399
<212> DNA
<213> Glycine max

<400> 30573

atgggtaccc atcagatgtg gtactaggtg gttgtttgtc gatggtgcaa aacaattctc 60
cacatgcaca aatcacgtat aaaccaccca tcccctgttg cccacctcaa ctgagctcat 120
gtactccac gtagccctta tctcgttcc tctcaacgcc gggtecccat caatcctccc 180
aagcttcac aacatccaag taattcaaca tccaagcctc atgaactaac acagccaaga 240
aaatagggca gaggcagaaa actctgcccc aaacacaaac cgacatcaca gcttttcaca 300
ctcaaatact ccagtaatat tctcttcggt ccaattcggt aaccgttgga tcgactctaa 360
aattttactg gaagtctcta gcacataaaa ctacattat 399

<210> 30574
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30574

tgggtgcacaa cacgttttcc acatccacaa atcgcgcata aaccacccat ccccttgttc 60
 ccacctgcaa ctgagctcac gtactccac gtagcccata tctctgtttc tctcaacacc 120
 gggcccccat caatcctccc aatctttccc caacatccaa gtgactcaac attcaaacaa 180
 cacataccat cacagccaag aaaacanggg aaaggcagat aattctgccc aaacaccaac 240
 caaaatcaca gcttatctca cttaaaggcc tcagtaacaa nntccttcgt ccaatt 296

<210> 30575
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30575

cctccacggg gtataatgat atcagcgtac ttcttggtgg gaagaataaa gtcatcanaa 60
 gctggcttca caaatntaga atactgcac aagtatatat tataagagac agttactaat 120
 atacgggtaa caaaaaaagg gaattactaa tattggtaga cataaaaaaa acgaaatatg 180
 ttagcttgat ttataatcat aacctcaaaa cagatcattg aagatntaat ntcatanaga 240
 ctgacttctt tacatgtttc taatcaatga aagttcataa cagcctctca gcaacatgaa 300
 ctataacaac atttccaagt cttgaaatgc agtacatg 338

<210> 30576
 <211> 186
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30576

gcattcaccc ctccncatt ntcttgacaa accataaata attnttttat agtcgtaacc 60
 ttattgtatt gcaacttaac agcacacaac aatcacttga taaataagtg gcttcagctc 120
 ctatntctta gttttntaa ttaccataac ccacagttga caataatgct aaagcacaat 180
 accata 186

<210> 30577
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30577

caaaaacggg tggttaagacg tcngcacagc acatcnggga attnagctcg gacccgggat 60
cctctgagtc gacctgcggc atgcaagctt tattgtctga taacgacaaa gactacactt 120
catcataatt caccatgttt tgtgaggaag cangcattga gcatcaatta acaactcctt 180
acacccctca acaaaatggg gttagtgaag gaaaaaattg aaagataatg gaaatgggtca 240
gatgtatgct tcatgagaaa gggttaccta acgaatatta ngcagaagct gcgaacactg 300
cagtattctt gctaaatcga cttcccacca aagcagtaaa tatgaagact cctttttaaga 360
cttggtatgg ttataaacct tccttgaana atttaaagta tttggatgct tgtgttttac 420
ttatgtgccg cagattaaga gagacaagct agacaagaaa gctgaacatg gtatctttgt 480
gggatatagt tcagtatcta aagcttatag aagtttccaa cn 522

<210> 30578
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30578

ccttcctggc ttgttgtgtt cataatagga ttccttctct tgatgggtgc ttttgtaag 60
gacatagact ttcagagttt ctttgcctaa ggatgtgtga tgcttcacat ttccattgca 120
gtgtggagat tcttctttga gaggaagctt gnggatcttg cacatgaatg gcctangcat 180
gttggtgggg acatagcatt ggcaatatca tgggtctttt ttcttgtgta cacatggaga 240
gagaaatatg attagttaat ntactttata attgtgtaag ttttttgtgc ttgtgggtgt 300
agaaacaaca t 311

<210> 30579
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30579

tagctttgat gtgtgcgtac ccaccatctt ttcatagtag agtatcgata atgtgtctac 60

catcacgatt atcgtctccc tttccatcat tgggggtacc acttgggccg ccagatccgt 120
ccaccttttg ggcgtgttct ttgaaagatc cgtccccctt tgtgcacatg ttctgtagtt 180
gcatcatatc cggaaccata tcacaattgt actgatactg gctaacaaag gcaaccatta 240
agtccttcca agactggact cgggaaggat ccaagtttagc gtaccangta acagctaccc 300
cagtaagact ttcttgaag gaatgtatca gacattcctc atcttttgcg tattcccgca 360
tcttctgaca atacatcttt agatgggtc 389

<210> 30580
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30580

agcacggctg ggnnacatga tatatgtcan gggtttgggt ttattttaaa gggaataaaa 60
nggggaattg tatcatgaga aatgtctgcg gggggtnttg aacccatnng cgggcgccga 120
agttgacagc gtgggcattc tccctcctta cnntctttgc accagttgct tccaattctt 180
tttagcattt tggcacttgt ggagggaaaa cgtaatcgaa cttccctctt ttcaaccata 240
cttcaattct ttctcggcg aataacttggc ccgcgaagct ggacggcatg taacctacca 300
acttctcata gtaaaacact ggcaagggtgt ctaccatcat cgtgatcatc tccctttcga 360
ccatgggagg ggccacttgt gctaccaggt cactccatcg ctgtgcgtat tcttt 415

<210> 30581
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30581

gatattaaaa attgactata atcagttgag tggcagtaca ncgaaattat acaccaatta 60
ttacaagcca aagtctctga acattttttg ttgcttcttt ttcattcattt catgatattg 120
gatcaaaatg gtccccact tcaatatttt caattcgaga ttgactcttc tcatttatag 180
caaaagatcc aacatgacac ttttgctttc acgtacgaaa agcgaaatgc tgatggcctc 240
tatcataaat acacactact ctatacaaac aatgtgtaaa acttcacctt agattttcat 300

gtaactatgc caaaatattg caccgcgcaa aaacttataa cgtttccatt tcataacata 360
 tgtcaggact accgagacca tcatacaact tctattttcc acaaatgcaa tattga 416

<210> 30582
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30582

ntattcaaga caaagcaatt aaagatattc aagatggatg atctagacaa tctctagagt 60
 cttagaaagg gtatattaaa taggaaggga attccaattg aagtagcaaa ttggcctgc 120
 ataacatatt attatgtaac atttagtgca tgtcaacatt ntcaagtgtt aataacagaa 180
 aattaaatac aactccctgt taagtcgact taccaaaatg tcatcccata ctangtcctt 240
 tagagattct gacacatctt ttcaatttct atgtagcata ggaatctttt ctcgaactac 300
 gacccccaaa tagttgtgga acttttattt tt 332

<210> 30583
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30583

tatcttgtat gtcttggatc ttcttcatca atgaattcct ttgcttcttg aggtttgatt 60
 gcagcgaagt ggagaaggag aaagatgaat ggagatgcca cttcaagtag aagatgagtc 120
 tagaagaagt tcaccaccat aggaagccat ggataagagc ttgaaggtag aagaagatga 180
 atgaaggag aggaagagaa gagcatgaaa tttagtgcct cttaagaaga ctgaactttg 240
 aagtttaatt ctcatatgat caaagttgaa aaaatgcaca cacaagacct ctatttatag 300
 cctaagtgtc acacaaaatt ggaggggaaat ttgaatttct attcanattt cactcgaatn 360
 tgtggagcca anatatcact aattatgatt ag 392

<210> 30584
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30584

tcatgatgaa tcaagagtga ttcanagatg ttttgatgat atctaagatg ataacaaaag 60
atgatgacaa aggtgatgac aaaaagctca aaggtcaatt aaagaatgag ttcaagatat 120
tcaagataga atcaagaaca cttcaagatt caagaggaaa gttgatttca agaatacaaga 180
gatcaagatt tcaagaatca agattttaagt gatcaagatt caagactcaa gattcaagaa 240
tcaagagaag acttactcaa gataagtatg aaaagggttt tctcaaaaat tgagtagcac 300
atgcattttt ctcaaaacat gtttaccaaa gagttttact ctctggtaat cgattactag 360
attgttgtat ccgataccag tagcaaaatg gttttgaaaa aaaaatcaaa tgaatta 417

<210> 30585
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30585

agcttgtcat attatctctt caccaacctt tgttcccacg atggattcat atcatcttca 60
tatgactgga tgaatcttgt aatatttggg ttaacaacat taaaattctg acacagaaat 120
acacaaattg agaaatgaga tgattatgca ggaaggcaaa acttttttcc caataataat 180
aaagaaattc atattcacia tagaagctta aaaaatatct taagtagggg aaaaaatnta 240
ctcatgttca caatactttc aatagagtta aacatctagc atatgataga agctcatttg 300
ctattgctag gaaaaggctt atctcattat ggcgaggcaa caagctccag gaataataaga 360
aaaggaaata aactctcacc agtttttagct tacatanngg gaacataaaa gcttacat 418

<210> 30586
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30586

gcttgtacaa gcacataaag ganaaggga actgatgaat gtgtttacac atcctttgca 60
caaaagatta ataggcctaa ctatctaaaa acagtcccca gtggagttgc caattgtcac 120
aacctaccct ttggcgggtg atgtaagctc cattggagct tgtaggccta ggatcttctt 180

cattaatgga ttccttcgct tcttgaaga tgaatggcag cgaaatggag aaggaataga 240
gagaggagat gccacttcac tgaaaagatg agtctacaag aacctcacca ccatangagg 300
caatgga 307

<210> 30587
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30587

tttagatcag aacttctaaa tttagggctt ttggaatccg gacgcgaaca caaatatatg 60
caagtaacca tagatattta agaataatat ttgttaaaat acattntctt aatcgataat 120
aaataaataa ataatatatt taacatatat ttatatattaa aatgaataat ttgaaaatat 180
atatattcat actaaaaatt aattaaacca acttatttat atataattag agacatttgt 240
ttatgcaggt atccgttaaa ctgttcaaat ccaatataaa caggatntat ccattntact 300
caaccaacat gcacccatgt tctgggtcatg cagcggtttg cctgagtcca gtctaaaaca 360
aaagtcatgt gattnttcat ttat 384

<210> 30588
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30588

ttgcacatta nactccacat ttatctctat agaaaaaaat atattaatac ggaaccctag 60
ctacttttaa aaagacgcaa caagggaatg tttntctctt ctgttcttta caaatagcta 120
ggataatgat ttttgtacaa ttattctgtg tataacagtt ctttgattt ttgtgaaata 180
tttttttgat atacatgttt atgaaaaaat aaaatttaag tgagaaataa aaaaaaatc 240
atatatgata atgagatagg atcgaagtnt anaatttgat gaaaccttaa ccgcagtgtt 300
agtagtaaaa agaactctta cacatgcaac aaanagtcgc taactgctaa taaatatatc 360
gatggtgaca agacatagag tacangcttt ggggttggtta gttaaaacat gcttcacatg 420
acgtagtaat tacaaaaa 438

<210> 30589
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30589

caagctgnngg tctanntcta aggattgagc atggcatagg aagggttag tatgttgaat 60
 ggtangaaaa tttgataatg atcacctcca cagactctnt gacgctcaac tttggaataa 120
 gagaaataaa ataaaaagtg aagattaaga agttcatata taaagggtaa tacatctcta 180
 tatagtgatg attttggcgg aaaaaatatt atgtactctg agagcatgtg acctacgaag 240
 cttattaata aggaggaaat ccatgcaatc tttgtgatat agagtagaaa gtacatttaa 300
 gaatgtgttg ctgaacttgc tcataattga atgtagagtt aacaattcag gtgacaagta 360
 taccaagtaa tgacattatc tatctggatt ctggagaatg aatatgagca tg 412

<210> 30590
 <211> 279
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30590

tagganaatg atcttagagg atttatatat gagcaacttg tgtactccac cctgggctgc 60
 caagatgtat caggatctca cgacaatggt ttggtgacca aacatgaaga gagaggctag 120
 tgagtttgtg tatgtgtgta tagtatgtca gatcgctaac atagaacatc tgagaccctc 180
 atgtaagttg caacactttg agatacccag aggaagtgga atatttttca ttgatttcat 240
 tgttgactac ctaggacccc caaggtttcg atctatcta 279

<210> 30591
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30591

acttccctca cgtactgtct cgtggggggg atgaactgct tgacaagaaa cttatggagg 60

agaagagcaa gcgtggacat gaggaacatt cgtgtactga aagcccaaca ctcaacgtcg 120
 acccaccatc cccagttgca agacacttga agtggagat cgcccgact aagcggcatg 180
 gccaaatgac gtctgaagtg gcacaagaaa ttgtagacan aatggtcagg tcatatattt 240
 ttttggttac tgtcattggc anataatgg 270

<210> 30592
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30592

gcttgtgatt atcatgtaga ggattcatca naaggagttg accacgaaca aactataag 60
 attcattcaa ccccatgaga aattgcatca acttgcgctt tttgttgttt gcttcacatg 120
 tgcaaatagc atcattatag gatcctaact catcccacaa ttttttttta actttgtata 180
 gtatgcagca actatcattt gatcttaagt aaggcaagca atctctctct cgatctggaa 240
 aatgagtggg gcgttgcttt gaaagaaaca attttgaaga ttttcccaa cttcatgagc 300
 agtgtaaana aaaataacac tatctgtaat atcaggggtc attgaattaa gaatcccatg 360
 acaaaccata tcattgcatt nttcatgcta catagtcttc t 401

<210> 30593
 <211> 331
 <212> DNA
 <213> Glycine max
 <400> 30593

tgatgggtac catgaggtgt ttttgtgttt gaccacgcg ggtgttgaag agacggcatg 60
 ggcattctct tcttctctt ttgcccctgt tgccccgatt cttttggcgt tcacgtttgt 120
 ggaggaaacg taatcaaact ttctctctt caatccaacc tcgattcttt ccccggaaca 180
 caccagatcc gcgaaactgg acggcatgta acccagtatc ttctcatagt aaaacactgg 240
 cagagtgtct accatcatgg tgaacatctc tctctcaacc atggaggagc tacctgtgcc 300
 gccaatccct ccacgctgc gcatattctt t 331

<210> 30594
 <211> 426

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30594

agcttgtcac ttgtcagccg aatggagact tctgactaac gatccttaga tgacaaggta 60
ctaccacatg gctacttggc ttanagaatt ctctgccaat tttgagctca gacacattat 120
aagagaaaac aatgagagcc aacttgttgt taaaactcgc cagtacaaag aagaaagggt 180
aatacataat agttatcaag gaaacaatct tggaactagg cttggacaag gtggtagcga 240
gtgtaactct catttattga gcgtggataa ttgagattta cgacttcctg gaaataactc 300
actctcgaat aatctagtag cgacaagaaa gattaagaga aatgccagtt attatgtgat 360
agcgggagga tacctataca aaagacgctn tacaacctct ctgttgaaat gctaagtcgg 420
gatcat 426

<210> 30595
<211> 213
<212> DNA
<213> Glycine max

<400> 30595

ttaccatcta tcccagccct ctccaagaat aacttgtcat gtaaagaaag cggtcctata 60
caccaaagt ttgttaccac tctctcagac cctattacat acatcttata cgactgctga 120
aaagtgatca ccaatatccc tgcattgcaaa tttccccagc tttgaattgt tcaacggagt 180
gcatccaaac ctgtcagtcc tgactcattg ccc 213

<210> 30596
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30596

agaacgaagg ggggtggaac gtacgcagca tgcgnncata nagnncgncc ngggatnntt 60
nagtcacctg cggcatgcaa gctttcttta ttgcgtcacg tntannaccg agctcgatgg 120
tggtgcgagc ctttgatggt actcngcggg aagtgatggg ggaaatcgat attcccatte 180
agatacgccc ccacacttgc catgtggtgt ttcaagtaat ggatataaat tccgcctata 240

agctgctctt gagaagacct tggattcatg cnctgngagt ggtcccttca acgctttacc 300
 agaaattaaa gttcgtagtg ggtggacttt tagtgatagt gtcnggtgaa gacgatatgt 360
 tagtgagctt ccactcctcc tcaccgtaca tagacgtggc ggagaaatca ttgaaccggc 420
 ttcttatcct ttgnggggtg agctgtgcct cngtgggaacc agtccgtcct acctttctct 480
 ccacgccgca taatggtgca ccg 503

<210> 30597
 <211> 136
 <212> DNA
 <213> Glycine max

<400> 30597

aaaagctgca tctacagcgt agaagtcacc tgcagttatg ttagctagca catccatttc 60
 tagtctgtat cttgttggtc atcaactagc atgcagtcct gaaatattat agaatgaca 120
 tatcttatgg aagaaa 136

<210> 30598
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30598

gcttccttgg gaattaanat gattaaagct tccttaagaa gctagagggg gactactcat 60
 atccctccaa tagctaagtt cacacctatg ccaaaataca tgaaaataca atgggaagca 120
 aggaaggtag cttccttggg aagcaaggaa gaaagcttcc ttgagaagct agaggggggg 180
 cggtggctac tcacaccgc tcaatagtta tgctacccc catgccaaaa tacatgataa 240
 tacaanaaaa taaaagtccc tactacaaag actactcaaa atgccctaaa atataaggct 300
 aaaaccctat actact 316

<210> 30599
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30599

aagcgtttca taccanngt tgcacnnncn nnnannaaga ancngggatc cttanagtcg 60
agctgatagc tgcagcttgt atttgttttc ttttaatgtg actatgaggc aggcgcgtct 120
ttgagaacca atccatcgac ctctccatct caaaactcaa taagatataa gctccacaca 180
tctcagctca aaccaataa atggagctag tatgatagat agaacggctt gctataaact 240
gcttgccaca caagtaatcg acattataga tgggaaatct gtgacaactt ctttctgtca 300
gagcaattgg agaccactta attgaaccca ctgtatgcta tcgccactac attaaactttt 360
ttctaaggat caagtatagg tataaatata tatgtattaa ctttatgata actaagtttc 420
atccacacaa ccagcttggc caacctttag tgaaaatatc cttctcaact atgtatttta 480
tatctatata accaaaccac aag 503

<210> 30600
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30600

cactatanaa atactcccaa gcttgtaggg attanntggg gtacccatca caatgtggta 60
ctagtgtggc ctgtcgggag aatgggtgcaa aacgattctc cacatccata aatcacgtac 120
aaaccaccca tcccctgttg cccacctcca attgagctca cgtactccca cgtagccctt 180
atcctcgttc atctcaacgc cgagtcccca tcaatcctcc caagctccca caacatccaa 240
ttaattccac atccaatcat catggactaa caaaaccaag caaaacaagg caaaggcaga 300
aaactctgcc caaaacacaa ccanaatca cagcttttca catacaaata cccagtaac 360
atttccttcg ttcgaattc 379

<210> 30601
<211> 409
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30601

catgtttgct ttgcttctgt gatgatgtgg caggagcaat ttctgatggc tttaaaacaa 60
cagcattacc agctgcaata gctccaacga ctggatcaag tgacaacact ggaaagatag 120

acagagaatg taatatagat nttgcagaga ttggaggaaa gaaaaagggtg agatgtcagc 180
tcaaaagtat gtgacacaat accaactaca tattaacata cagaatgggt agttccatgc 240
agagatgact aacacaaccc ccagtgggtc agatactatt tcagctgaag atggaaatag 300
tgcgattgaa gtcttgacct gcaataaaag ggaaattcat gtgataaatc ataagtacca 360
aacaatgtca gcaatgaaat tcacataatg tatanccctt caggagtca 409

<210> 30602
<211> 318
<212> DNA
<213> Glycine max

<400> 30602

caacatatat atgttcatcc attctaagct atcctttttt ttttacatat gttgtaccag 60
gcctcccatc cctctaaaag tgaccctaatt tctcatttta atactaatgt tgccccataa 120
ggaaatgcca aatatgtttc ccagagataa aagaaacatg tctctcaaag ttctttgtat 180
ttctatatat ggccatattc tctaaatata ttaatagatt atttactgag agaactcaag 240
attcctagtt taaaaaagaa gtcacaccat tagccctctg ttttattctt ctctatgatg 300
tcgtttgat tcttctct 318

<210> 30603
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30603

agctntgagc ttattcttac gacaataact nttgattcgg atgtccgatt gtgtcccgta 60
ttatatcgag atgctcgtaa ttgaaaatag aagctctgag caaattcaaa cgacaataac 120
ttttgactcg ggtgtccgat tgtgtcccg agtatatcga gacgctcgaa attgaaaaca 180
gaagcactga gcaaattcaa acgacaataa ctttttactc ggatgaccga ttgagtcccg 240
taatatatcg agacgctcgt aattgaaaac agaagctctg agcaaattca aacgacaata 300
acttttgact cggatgtccg attgagtccc gtaatatatc gagacgctcg caattgtaaa 360
cagaagctct gagcaaattc acacgacaat tactttctac tcggatgtcc gattgagtc 419

<210> 30604
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 30604

gacacataga aactcaagct gttcttgatt tttctaagtt ctttaacaag cttagatcaa 60
 tataacttgtc cttcatttaa ttgtctttgg gcttggcggc ctgatcaac aaagtacttt 120
 cggcacctac tataatggtga cttgaccaac gctcttatcg gtatgctgcg acaatccttc 180
 aacaccttat tcacacattc tgagaggttg gttgtcatgt gaccatatct tcgtccagat 240
 gtatcataag ccatggctcc attttccttt gaaatgcgat caatccatgt cgctatggct 300
 ggactcaatt gacaaaattt ttctaagttt tgatcaaaca catgcttgca aagagtgtac 360
 gctacatcac aattgttacc atcaaaagtt gaggtagata tgaaactcaa ataacttca 419

<210> 30605
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 30605

ttcttgctca tttgtttaat aaacttaaga tcaatagtta ttataaaaaa ttctatcaat 60
 aaaatttctca catcacacta aaaatcaaat ttgcatcctt ataaaatatg atttctatcc 120
 ttataagtgg actcacacct ttgttggtta tctcactc taaatatgta tatgtattgg 180
 ttctgtcatc aacaataacc ctttgcaatg tcaagtaaga ttgtttctac taaaaaata 240
 tgtgatatgt ggcatagtaa taaaacatat tgattaatga agatcattat aaatttagta 300
 taaactgata ctggaaatga ttacaagcgt gggaagagaa aaagagtgat gaggtagtgc 360
 ttctgcaata atttaccaac aggagcagtt ggcagtagtt agtgcgtctt ttaaagtata 420
 cat 423

<210> 30606
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30606

tatcctctac gacaatcaac tcggcggcaa aattcccggc tctatcgga accttaagag 60
ccttcaagtg ataagagcag gtggaaacaa gaacctggaa ggccttttac cacaagaaat 120
tggcaattgt tccagtttgg tcatgttggg tcttgctgaa actagccttt caggttctct 180
acctccaact cttggcctct tgaaaaacct tgaaaccatt gccatttaca cttccctact 240
ctcaggtgaa ataccacctg aacttgngta ctgcacaagg cttccaaaca tatatcttta 300
cgagaactcc ctactggat ccataccaag caagttggg 339

<210> 30607
<211> 424
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30607

agcttgaact tgctgtatct tctacttttc tagtgatttc atatgagaca ttgtgttcat 60
tctgttttat ctgaatataa tttagtatat acacaaatat tgattttgat atgctaataga 120
gatatgctat ttgcatatct agaatccata tggcagtttc cttgacgagg actataactg 180
aaagccaaaa cgtgtttccc atgtctatct gtcttgcaag gcggatttct gatcatggag 240
cttcaagggt agggatactg cttcttaaac gttgattcaa ttattattcc ttactccttg 300
gtgtaaaata ctttatatcn taataaattt tatgctgggt tatactttat gtnttaactt 360
gtcaaaacaa aagcaaaccg ccattgtatcg aattggctcg gatttcatct tccgaaactc 420
ccct 424

<210> 30608
<211> 502
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30608

ggggnnnnnn nnnnttggga cagtcagact cngcaatcac tcgaccgggg tctctgagtc 60
acctgaggca tgcaagctct ntgtataatc tttcttgga agctagagct agctacacac 120
acctctctaa taactaagct cacctncttg agaagcntnc ttgagaagat tcctagagaa 180
gctagagctt aactacacac acctctctaa tagctaagct cacctncttg acatgagaag 240

ctagagctta gctacatacc cncatataata actaagtnta accccatgcc aaaatacatg 300
 anaatataa aaaagtccct nactacaaga ctactcanaa tggcctgaaa tacaagacta 360
 anaccctata ctactagaan tggcaaaaata cannggccan aaaanggana acctattcta 420
 tatttataaa gngagtgacc caaccttgct catgggctag aatctacctg tgtcatgaga 480
 cccagggcct cttagcactc tn 502

<210> 30609
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30609

aatactagct taggttttcc tgctttttta ttctnctacc tcttttcttt cttcccttag 60
 aaacctttct taagttttaa atcctgcgac tacgcgctaa gcgcgtaagc tagctaagcg 120
 acccatgtgc gctaagcacc ttttcacttg actgcaggtg ctctatgctg cttcttcgcc 180
 ctgagcggac accctccac taagcaacaa tagctcgcta agcaagtcgc acgcactaaa 240
 caciaaccat catgcttcaa cttctctctt tateccttgc ttggatatct acaaaataaa 300
 atcatcaaac agtttgaatt aacgatttaa ggtacctact gcgcaaatac ttcgaggata 360
 ttaaaattat aatgattcac acaaaaa 387

<210> 30610
 <211> 154
 <212> DNA
 <213> Glycine max

<400> 30610

tctgggtggga catcttgact tgctttctaa tctgacattc atttcagatt ctgccttctt 60
 ctatgttcag attgggaatg cctctagcag cacctttgtc gatgattttc ttcatgcctc 120
 ttaagtgcag atgtgcaa atttgatgcc atat 154

<210> 30611
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30611

catgtntgtc atcatcaaaa atgctggagaa tgtgaatgta ttttgatgat gtcaaaagaa 60
gaatcaaacc aggctcattt tgcttcaaata taatacaaga ttgttcaaca aacanagcct 120
tgattcaaga tttcttcaag atcaagtcgc gcctcacaat gaaaggggttc aagtcattca 180
aggcacatgt aatcgattac caatgggttg aaagtgtgtg atcnattaca catcatantg 240
tatcgactac tacagactct gaatgtggga attcannatt taatgaaggg cataactgtt 300
cangaaaata actgtcgtat tattacacta anntctgtat cgatttcaga gaggatntca 360
cggatatcgc cacagcacat ctatcattcg attttgag 398

<210> 30612
<211> 242
<212> DNA
<213> Glycine max

<400> 30612
atgacttgat attgactttt cgggaatgca cagacatctc acattcatca aactgggtcca 60
gtgaaggatg tttgggaaca gttgccgggc tctcataatg agccgatgat gttcatcatc 120
ttggctgacc ggttgcgcac tgctggggat aatgtgaaaa ttacccaccc ttgtctaagt 180
ccactctttg tcaccggcta atgggttatac atggacattt tcttgccac tttgacagtc 240
tc 242

<210> 30613
<211> 241
<212> DNA
<213> Glycine max

<400> 30613
tatgcagtta ttcccccaa ccacaagaaa gcaaaaccct taaattccat acgaatcaaa 60
atcctcaaca gagtttataa atccgaaacg aatagaagaa attggaatta aaagaaaaaa 120
acaaattata aaaagaagaa caaactaact aattggatcg tgggtggaac ggtgtgtgat 180
gctgctgatt attttcgac ctctgttccg tgcttcagag agaacacaga agaatgatt 240
t 241

<210> 30614
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 30614

ggattatata tcagagtgtt atgatccagc cttaaccata atcatgacta acataagcta 60
 tgtttaataa gacattctag ttaatttctt atttttatta ggtgaaaaac tcaattgtgc 120
 aataaacaag ttcttataat acctactaat gcttgatatt ctttttaatg atacattttt 180
 taagtacttt aacatctaata tttacttaac aattctaata taactaatta gtctttaact 240
 gcttactatc aattagttgt ttttaacttct acctaaacttt gtaacttcta gctaattgtg 300
 caaacgtaat gataatcacc aatttggtat tctcttact 339

<210> 30615
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30615

nggctgtaag accatggcna gcacatcnng caattcagct cgacccggga nctctgagtc 60
 acctgcggn tgcagctttc ttgtttgtcc atcnnggaca attaactgta aagtggggccc 120
 aattggattc taatttcaac ttacctatnt ggaagtgaca tcatggcagt taggtcccag 180
 cnttccattg tggattcagt cacanaacca acttcaatat gtnggactat ctaacacggn 240
 gatnttcgat tctattccca cacacgatgt gggaagcacc ttctcanggt ttgtatntaa 300
 acctctctcn taatcatatc catggtgaga tngnactaca ttaangaatc aatatctatc 360
 caaatattga tctaagctag atcactcgtg tggttaattac cctatctttc acgtgatgtg 420
 ctcnngtaga tctntcangc attcattctc tgatccatga atgacttnta tgtacnatca 480
 ngacanca 488

<210> 30616
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30616

tgaccggcga anagttgaga ccctggtaga atccgatacc nctgtaanaa cacngcnng 60
 gggatctact acgctttag aactatggat gctgttcaag caaattacac tatcttagag 120
 aaggagctat tatcgatagc ttttgctctt gagaaattac gttcatatct gcttggtact 180
 cgtgttattg tttatactga ccattgcaact ctgaagtacc tgttgaagaa cgctgaatca 240
 aagcctaaat tgatcaggtg gatgctttgg atccaagagt ttgatttgga gatccgtgat 300
 cagatgggta ccacaaactc tttgggtgac cacctgagta tgattgagcg tgcgcctgat 360
 gactcaccca ttcgggatga attttcacat gaccatttgt acattttgta taagatctct 420
 gattccgtcc ccaactccatg gtttgcttat attgcaatta tatggctgct catgttttcc 480
 tccctcn 487

<210> 30617
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 30617
 ccggaatcca ttttcgggga aaaatgtata gactgagaaa agaaaaatca atacggcgaa 60
 tgttttgtgc tagcaaaact atgggacctg ctttgtggta ctactctggt gtgaaatagc 120
 gatttcacat tactgatatt gaatttggct cattttttat agacgatcgt cagaactctc 180
 atccttggtc tctctatatt ccctcgaagt atgactctaa tcttgagtct tttcttttgg 240
 tataaaactaa tcttgagtct gaatgggtgg ttaagtaaatt ttctaattga aatgatactc 300
 taatctaaaa tt 312

<210> 30618
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30618

aatcacatgt ntgtcatcat caaaaatggg gagaatgtga atgtattttg atgatgtcaa 60
 aagaagaatc aaacaaggct cattntgctt caagattaat acaagattgt ttcaacaaac 120
 aaagccttga ttcaagattt cttcaagatc aagtcttgcc tcacaatgaa aggtttcaag 180

tcattcaagg cacatgtaat cgattaccaa tggtttgaaa gtgtgtaatc gactacacat 240
catatgtaat cgactactac agactctgaa tgttggaat tcaaaattta aatgaagggt 300
cataactgtt caagacaaat aactgtgtaa tgcattacac taattctgta atcgat 356

<210> 30619
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30619

tgagcgaatc caaacgacaa taactgtgta ctcggatgtc ttattgagtc ccgtaatata 60
tcgacatgct cgaaattgaa tgttgaagct ctgagcacat tcanacgaca ataacttttt 120
actcggatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180
tctcagccaa ttcatacgac aataactttt ttctcggatg tctgattgag tcccgtcata 240
tatcgagacg ctcgaaattg aatggtaaag ctctgagcca actcatacga caataacgtt 300
ttactcggat gtctgattga gtcccgttac ttatcgagac gctccgaatt gaatgttgaa 360
gctctcaacc aa 372

<210> 30620
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30620

tgctttgaat attggtcttt gccagtgaaa ggatcgatgt gggatatgaaa aaaggcaaat 60
ttagtcatcc tgcttggacg aatgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120
gagaaacca tgctgtgact gccattccta tacggccaag tttcccacca aacccaacaa 180
tgtcattact caatcaataa caaacctcct ccttaccac caccagtta tccacaaagg 240
ccatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300
agcacaacc aaataaaaca ccaaccaaga aatgaattnt gcagcgaana gcctgtatga 360
ttcaccccaa attccggtgt catatgctaa ctttgctcca tatcta 406

<210> 30621

<211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30621

agcttgcttc tacaatctcc ccctttntga tgatgacaac cctgaaatca agaaacacac 60
 acacacacac acttttttct agtcgatcac tcaacttaatt ctccatattc tccccctttg 120
 tttttgagtt tatgcttcac ttgaaattaa gttaattact tatgtgagtt cttgatttaa 180
 tccctatttc tctccccctt tggcatcaac aaaaagccaa agtgcgtaac aaatataaat 240
 catacataca ttactaatca ttcacaagac attcattgaa aaatctaaac caatcatgaa 300
 gcaagaaaca tgaatagatc anatatataa aatccacata gtcataatac acaattcata 360
 attgttcaat catactatgc aaataanaga aaatactaaa tggtcanaatg tcataataat 420
 at 422

<210> 30622
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30622

tctcaaacat taatntaaac aataaatgca caacttagca tgtttagtgg tgccaatagc 60
 agttaaaatc actaaacaaa ttcacatgaa aggaattgat ttgaactaat gaacaatagc 120
 aaacaaaagg aattaattga tgcacaagca ccaagagcaa tacaaattga tgctaataat 180
 aatgacgcac cacatagaaa ttagaagcaa aaattaggct caaattggaa tatgatgcaa 240
 tcacaaagag aaaggcactg aatgaattca anaaaaaacc gacgcatggt attaaaatgc 300
 tataacaaat taacacaata tgccacaagt aggtgacaca catccaattg atatttgatt 360
 gatgcacttc atacaaccaa tgcctaattc 390

<210> 30623
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30623

agctcgaccc gggtcctcta atcacctgca gctgcagctt caatttcaag cnaacagcta 60
aagaagaaaa tgtgggatcc tgtgnaacca atgggtgcttg gaaagaagag ttaaaaactg 120
ccgttaataa ttatgcttct gtcattacag aacttgatgt tgcaaagaaa gaactgagta 180
aaattcgta ggggtatgat ttatcctcgg aagcaagagt ttctgctctc aagcgagcat 240
cagaagctga agatgcaatg aatgcataca ccataagagc atgtgagcta tctaaagaaa 300
ttttggctgt acaggaatca ttgagaaaa cgaatgctga atntgtcaa gcacatcaac 360
t 361

<210> 30624
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30624

agcttgaatt ttatgttgat ttgacagaga gaaatacttg tagcttggtg aagttactag 60
aatttggtgg ttgctataa gaacttgaca ttgtcttggt gggttgagatg aaccaacata 120
aatntgatgt gtcttattct tttttatttc tcttttgcta tttgatctgt taggggttga 180
atttgatctt tattatttaa aaactttggt tgttttaca agatttgaaa ctatcatctt 240
atttgttntg caaaagtctg atatctgttt tgttaagtct tacttcacaa gacaataact 300
ntattanttt acgaaaaaat tattttttta tgaaaattac aattcaatct tatttcttgt 360
aatatttatt ttgcaatat tattatattg tat 393

<210> 30625
<211> 431
<212> DNA
<213> Glycine max

<400> 30625

tcctcgggtgc cattcactgc gattgctaac atttggaag ctagtttacc aagaaatgct 60
actcttaaaa caaatatggc atacaacctc ctccaataaa cacaacatc aatgtaaatt 120
tagagcaaac tcatgcacat acttccttat gaacattcac tcgcacaaaa tattcttcta 180
cctaaaaaaa atgcacccat gcgcaatcaa agcacctttg ttacctagat atatttatgt 240

gtacttccaa ggtgtattta ctacttacat cacatgcatt tccttggcta aatgtacata 300
catgcatact caaagcatct tggctaccaa aaattgcaca cgtgcacatt ctggcatttc 360
tagtacctat gcatatacaa actatgtgat gaatctatgc tatctacaca ataagggtgct 420
acatttcattg c 431

<210> 30626
<211> 381
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30626

ntagcttcca ctctgaagac catatgccac tagaccagtc tattctagaa tatagaaaat 60
aaacttcattg gtctcgaata catgtagcgt gcctaaactn tgagggtgtaa catcccaaaa 120
ataatctaata aattatctag ataaagatat ttaaataatat cttttattac acgacaagat 180
agattaaata atttaaataat atcatataat gatttttatt tcgaacagag gttactataa 240
taatataata gatttggttaa cgataaatta acgataatag aaagtataga taaagaagga 300
tcatttaaca gattgcaaata tacacacaat tettaataata tgggttgacag tctttctctt 360
agaacacaca cataaaggat c 381

<210> 30627
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30627

tcacttgcca ctggttataa actacaacct ttaaacaaca acttgcaagc aattaaaatt 60
cgtgactttc taagagacaa ttgtatcttg actccacgat ctagctcttg aatcatctta 120
cacacccttt gtaacctaaa gtacaagaat tccctacctt cccctcatt gcattattac 180
atcgtcaagc acattctata taagttatga ccctatgtat catctaaacc ctgtaggaga 240
tgtgagaaga aactcatata taaacatacg tttaataaac ctatataaca ctgatngaga 300
tacccttacg gatgcttatc tggatatctt agaattacat tgcttcggtg cttgaaacgc 360
caaccaata tccacattca tatctctcac tgaaatagga cgc 403

<210> 30628
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30628

accaagtgtg tctaactttt cctaagtcta tgtttttgcg ttgttgcgct aaacgcacct 60
 tgcgcactaa nggagtactg ttatttttat aaggcacgct aagcgagcca gtctcgctaa 120
 gcgcccattc tatttttttag ttttattttt ctgctttcag ttaaaataaa agcatgtcta 180
 atatgattat tgtgcttatt ttttatgcag atgacctcca ngaagaggaa agccatagcc 240
 tcccgatccc gggaaccata taacaccacc cattntgttt ntgaggtcgc ttangagcga 300
 tattctcaaa acattcacac caggaacatc cttccagaga ggaatgttaa tctttttgtg 360
 atagagtatg 370

<210> 30629
 <211> 323
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30629

gcagctttac attaatttca gctctcgatt gtacgggctg atcagacatc gagtaaaagt 60
 attgtcgttt aatttgctca gtgcataaca ttcaatttca gcatctcgat acgtgatggg 120
 actgaatcag acatttgagt aaaagttatt gcgtttgaat tgctcagtga tgaacattca 180
 ttcagcgttc gattataccg actcatanac atcgagtana agatttgctg tgatnactta 240
 agctcacatt cattcacacc taattgtacg gactgatcga catcgagtaa agtattgcgt 300
 tgattgctca actcacattc att 323

<210> 30630
 <211> 250
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30630

tctttgagct tcattgttgt cttttaatgg cgattntcca ccatggagat gcatcggaag 60

acaaaggaga ataggtaaga ggcgacgcc a tccactatgg aataagccat gaatgagctt 120
 caccacgaag atgagcaaag agagtgttgg atcgagtggc ctcanaatca ttaagaaggc 180
 ggggggggtg aattaattat tcttaaacct ttactaatta aaaaattact cttctaattgc 240
 ttttacttat 250

<210> 30631
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30631

cccacaacaa caacaacaat tcatcaaccc acgatggaga agaagaagcg gtgaaacccg 60
 accagctgtt caaggaaacc gcagagtaca tctgtttgct gcggacgcgc gtcgtggttc 120
 tccagaaact cattgagtat tatggaaaca acaacgacac cacccaagat gagaatgaac 180
 atgaagatgg tgtcttgttt acatagctnt ttcactctct tcttcttctt catcttatta 240
 ttattattat tcttttttgg tttcttctta catggtttgt tttgtgactt ttgtcctttc 300
 attaatgaag aaaaaaacaa aagacaagat ctttgggtcta gtgttttttt tcttgaggagg 360
 ggggggg 366

<210> 30632
 <211> 369
 <212> DNA
 <213> Glycine max
 <400> 30632

ccaaaatcat gagcacgaga agagtctgtt ttcttattaa tacaattcat tgtatatgcc 60
 gtgatcactc aacattccag tcttatgtaa gaacatatta tggattaacg gacaataata 120
 cctctatgtc tgagatcgct ctcacacaat aggctcagca tgtgggcgca tagaaagtgg 180
 atagtggcaa aactgaatac atgctgctat atacaattaa tagactccca attgtctatt 240
 atttgaataa gacctttgat ctttttctaa aataagcgga gctaaaagat tatctgtttt 300
 tgatgtcaat attgaaaata gtactcttgg ctgataaaag tgaaaaatgc ataatgccgg 360
 ataaaaatat 369

<210> 30633
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 30633

ttcgaatggt cttatacttt tcaactcggat gtccgattcg cgggcataac tcactctagat 60
 gctcgaaatt gaacatcgga agctctcgag aaattcaaatt ggtcataact tttcacacgg 120
 atgtccaaat ttaggacata atatatcgag aactcggaaa ttccacaacg gatgtactcg 180
 agaaatttga atggtcataa cttttcacac ggatgtccga atgtgggaca taatatatcg 240
 agacgctcga aattgcgcta cggaagcact cgagatttcg aatggtcata acttttcaca 300
 cgaatgtctg attcgcggac ataactcatc tagacgctcg aaattg 346

<210> 30634
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 30634

agcttcaaca taataaagac tttctcaagt caagaactat gatcttcttg aggaactcta 60
 ggtttcaaatt cgtgccatag taagcatggg atatattgaa taacaattac agggagaacc 120
 catgcattga tcttaatgat gtgtgtaatg agacaatgaa tgatgcacaa ttcgaaagct 180
 ttgttgatat tttgtcacc cttggaaatt gttgctcttt tagtctactg gcagttgaat 240
 cttttccctc tgcttcaatg cctctcagc caatggcatt ggcttcaact aggacttcta 300
 caccatgtgg gacaaagtgt aaagttgtta tggttgatgt cactgatata caatttgatg 360
 agttcaacac aggtcttgat 380

<210> 30635
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 30635

tatgaagaga gaacaattta gagagtgatc gaagactttc aaatggattt cactgaatt 60
 tattcataga gagatcgaga tatcttaatg atgaaagttt tccaaatgat ctaggaagag 120

tggaaattcc ttcccccaacc cctcagccag gtccatatga gaaacagagt gctatctgtc 120
 agtctagtga tatcaaaggt ttgattctgg aaaattatat cttttctgag cctccatatt 180
 gaggttgtaa ctgctatcca ccacattgtc cttcttatgt tagcatcctt tgaaactgct 240
 gaggagaaat gctgaagaca attgtccaaa ggtctgcagt gaaacacctt ttcttccttt 300
 atccaagata ggaattccca ccatatagggc ataattntgc cacaagtga gagtacgtgg 360
 gaagcagttc aggttgacta tgacagaatg gcataaatat tatgcacctg aatctgcctc 420
 ttaatc 426

<210> 30639
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30639

gcttagctac acanccccct ataatagcta agctcacccn catgatataa tacatgaaat 60
 acttaaaagt ccttactaca aagactactc aaaatgcctc gaaatacaag gctataaccc 120
 tatactacta gaatggccaa aatacaaggc ccaaacaaag gaaaaaccta ttctaantat 180
 taaaagata agcgggctca aacttagccc atgggctcgg aatctaccct tangctcatg 240
 agaaccctaa ggccttcctt tggatctctg gcccaatcta cttgggtgtct attatccaat 300
 gcccttggtg ngtaagatng catcattccc tccaccttgg aaaggattt 349

<210> 30640
 <211> 313
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30640

agcttggttag aactatcatc acatgacgct ntattggcac agaataagtt gcttttctaag 60
 caacttgaga ttttaacaga aacacttggg aagttgccaa cttaaactgtc tattgggtcaa 120
 ctttcacatt cttctatttt gcagattaca ggttggttga tcaagtggcc tcagaataat 180
 taagaaaggg gggggggggt gaattaatta ttcttaaacc tttactaatt ataaaattac 240
 tcttataagg cttatactat gttgttaagt gaataaagag tagaagagaa acttaaccaa 300

cagttaaagc gga

313

<210> 30641
<211> 382
<212> DNA
<213> Glycine max

<400> 30641

tataaaaccc agcttgggaa acaattagaa gggaggagaa ctgatttggt attttatgaa 60
tattatgtct tataacataa gggggcttgg aggtagactg aagaacaaag aggtacatag 120
tttaatttct aaatataagt taaatgttat ttatgagcac gagacaaaat tggaggagat 180
caatagtagt ttatattctt tggtgaggag ttgagatgat tatgagtttg attctaaaaa 240
atcagagggg cggttatggg attttatgat gtggagaaaa gatcttttgg ttgtaaaaga 300
ggtggtgtat aaggaacatt gggtatgatt aattggtgta tgtggcggtg agcagattga 360
agtgtttatt gctggggtgt at 382

<210> 30642
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30642

agcttgctaa tgtgttgcac accaatgagc tcgcaagacg gctaaagggtg atgacttatt 60
tgaggttact gagtatatgt tatacctgct agtagtctgt ttctgtatgt gttgttctgt 120
tttatttacc cctgcaaaaat aaaggaaaca tgagaacagg gaaacagggg actaatccag 180
cttatcagga aaatgggtgt ggaggtgggt tactgacacc aacagtttgt gagatgctat 240
ttgtttatgt aaaacaaatt gttgtgagtg gatcaactgg agttgggggt tgtaagatan 300
tttctgagg gtgttgtttg ttgataaaag agtaaccttt gganaattga attcttattc 360
atatactctg aaatgac 377

<210> 30643
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30643

ttatgttgca natatttaca atagacctcc tcaacctcat tatctaaatc aaccacagtt 60

tatcaattat gacctttcca gcaacagata caaccctgga tggaggaatc accctaacct 120

cagatgggtcc agcccttata aacaacaaca gcagcctgct ccttccttac aaaatgctgc 180

tggcccaagc agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca 240

accaatagtt ga 252

<210> 30644

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30644

agctttcttg ataaaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60

agcttagcta cacacacccc tctaataact aagctcacct ccttggaag cttccttgaa 120

aagattccta aagaagctag agcttagtac acacacctct ctaatagcta agcttacctc 180

cttgagatga gaagctagaa cttagctaca cacccttat aatagctaag ctcaccctta 240

tgacaaaata catgaaaata caaaaaanag tccctactac aaagacaact canaatgcct 300

cgaaatacaa ggtaanacc ctatactact agaatggcca aaatacaagg cctaaacgaa 360

ggaaaaaacc tattctaata 380

<210> 30645

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30645

tctcccccaa ttntctataa atagggggag aagtgatgtt gataagggtc cagccctta 60

ggcacttgtc tctctttcga atttgctcgg aaaaattgtt tccgtgaaga aaatctaagc 120

cgaggcgctt gcgaaacgtt tccgtatcgt tttccgtgag gaatctcgca aagggttcaa 180

cgtttcttcg acgtttctca ttggtttctc atcgtttctc gatcttcaac gggtaagtac 240

ctcgaaccaa gcttttctat tcattctatg tacccgtagt ggtccacatt gtgtttcgtg 300

catttatatt ctcgttttgt tactttttat taccctgtt gcatgc 346

<210> 30646
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30646

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 aaatcacatt tcgttggtggg ggaatgtgag gctcanagaa cattgtgtat tttccatctc 120
 tctttgcagt gcatatgata gagcggctat taaattccga ggagtggagg cggacattaa 180
 cttcaacatt gaagattatg aagatgactt gaagcangtg atcaatttgt gaatatttat 240
 attttgttnt atcttatctt gaacagtcac acctcatag tataggatca ccttatctcc 300
 tacagttagt gctatntttt ctgtcttgaa gtactctcat gaatttgta aatgcaatgt 360
 taatagatga gcaatcttac 380

<210> 30647
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30647

tctctactac caagagcagc tcaatctgtg atataaaata atgtaagaga atcaattaac 60
 taacacccaa taagaacatc agaggaagtg atgggggata aaaataaaat gtcatgattc 120
 atatacagac agacaaagat gaaagtcag cataggctta ttttctgaga ttntgtgagg 180
 canganaaaa gacaggcaac aaaccctttg acagactcaa aatgacaaaa tagaaagaca 240
 acaagacaaa agggcaagta atttgatggt gaggagctaa ggaacatact gtgttgaaaa 300
 ataaagggtg aaattaaatg atntaggtag ttaataagt aaacctgagc angagaaata 360
 aaatcataat atatgcaata ttgcatggaa t 391

<210> 30648
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30648

tatatgccta gatatcaggt taatttaatt tagcttatnt tcttattang ttttaattac 60
 tttttttttc tgtcacaaat tactatatat gcactgtatt tcattttctta ggccgcatta 120
 attagtatgc atttggttaa ttaatttcta aatatttcca cttctttttc atgtgtgcta 180
 ctacacagtc tacactatag tttgtgtatg tatgagaaag atgaacacta ggttatgacg 240
 tgtacgagga gtttgaactg tgagtcanaat tactctacaa taatagtaat atctaatttt 300
 atcctctata acaacgcaaa gctagaatat accccaatt acatggat 348

<210> 30649
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30649

gctattattg tgtgtagagg gagtgatgaa cataggatgt cttctctcac aacttctact 60
 tggttctttt gggatcttag gttgaaagac attgattagt gaatgttttg agaaatgata 120
 cacctctgta ttttgacaga gtaactaccc acgagtttga cagctaataag atctcattac 180
 atcattcaca tatgtcattg ttatctaaca ttgttccttc agtctatggg ttacaacaat 240
 tgtatattct tctcttttatt ctcatatagg taccatttga agaagctcca gagcttggtg 300
 atggacggta tgtgttttatt aatcaatgat atgcatatgt tgcaatgaat canggtcact 360
 agtgtcatta cttctattt 379

<210> 30650
 <211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30650

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 aaggtnaaaa atctgcaaaa acacattcac atcttacagt ttcttactca aataccccag 120
 tacattcctt tgtccgattc gtaccgtgga tnacttgaaa tttactggag attctagtca 180
 taagtnacat tntgaccgtg ggatctgtag aaatgtcaga atcaatatgt actacctttc 240

cataacc

247

<210> 30651
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30651

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gagagcacia atcctatact tatccaagt atcctttttt atatacaatt gcttactcac 120
tagcttttca ctttcatttg cttttgacct tattgcatta gcacacattt cttttgattg 180
gtttctttat tttggttctt cttctctatt ttttaaccaca caacttatgt gttgggagt 240
ctgatgctat atctatttct ttgcatccca attagtttca cctccccaaa tttggggtaa 300
atttgccttg aaccatatgc tctcctacaa tctaaacaag gtatcttgga gataatcatt 360
taggttcacg gttcaattat ggacaaaatc attcagctca canagggtgc atatgataca 420
at 422

<210> 30652
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30652

agaccncgtg ctgttaaaat tgaganccat gnagnnatct tgacacttta gtannaacnn 60
naannnnngg aaggagatg tatcgtaaac tgaagcgaat ttctgttact tcagatagtt 120
ttctttgtga gtgtgctaga ataggagctt tgacatgtgg aaaatagatc catgctcatg 180
cattgagaac tggatatatct ttatggttta taccatgcat atacatacgt tgtaggggg 240
aaatagaata gctggaaaaa tttttagtg acatgaataa acatgaattt tgtacagata 300
tgaaagtgga acgaccatgc tactggcttt ttaagatggg agtaacgtga actatgaatt 360
cttattcatg ttggctgcgc acaagttggg caatgttaaa attttcagat ggtagactt 420
ttt 423

<210> 30653
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30653

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 tcggtggttg agatacacta gtataaaattt cttgtgtctt attctctctt ctattattng 120
 aactggccta cggtttgaat gtgatcttcg cttttgaaca actctatttg cttacaaaga 180
 tatgagacta ttgtctgac tgtcttgcaa gaattgatat ctatgttctt angtgtactt 240
 catcaacact atcttgatgt attcaaaaag gtttgagttt ataaatttgt aatgttacat 300
 acatgatttg at 312

<210> 30654
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 30654

tcaatctgcc atagctactc agttcgccaa tctccctcaa atgctactac acaacctaca 60
 acaagctcag caaaacatgt tgggtgttgt catccaacca cctcccatta tccaacaaca 120
 accaactcca agtatattgc ttgcacctgt tgaaggaaaa ccatcatcac ccacaataac 180
 accaccagtt tcagcaccaa caccaccacc gaccaatcaa gagtgacgat gatgtcccat 240
 cataattact ttctgtcaat gacaaaagga agagaatgtt atagaaattt gatttatgta 300
 aatacgacac tcttataaaa taca 324

<210> 30655
 <211> 117
 <212> DNA
 <213> Glycine max

<400> 30655

ctgcaacttt acttggtttg ctccggactt aaaccctgtc gacacactaa tttaaaccct 60
 cccctcttta cagcaccctt ctcactctaa actactatcc ctggcaagac gactagg 117

<210> 30656

<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30656

agtccatagt tccaatcaat catgctcagt atgatgcatg cacctgacct caactctcaa 60
acgtaatgtg gtaccatccc caaggaaata gtctaagcgt tgtagaagca aagcttccaa 120
gattattttg atgatgccaa agattttaaa aagatgcatt caaacaagat taaagaaatc 180
aagaagattc aagtgaagat tcaagagaag actcaagata tgcaagaacc tcaagaatag 240
ctcaagatga gataagaata atntttcaaa gaaaagaatg atagcacaat ttgccaaaga 300
aaaatcttnt accaaagttt ttactatct ggtaatcg 338

<210> 30657
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30657

aaaaatttct tggatagatt gaagtctttg gtcataagtt ttatttactt atgctgccac 60
ttgtgacaac attacatcat acccaaattc gtgtgcaatt tcgatgtttg cagtgtggat 120
ctgtctatac ttctctcttc aattcttttc aaatttcata ctcttcccaa tagagttggt 180
tgcagtttca ctagcagacg tccaaactaa taactatcca ataaatttca ccatcttata 240
ttcatgattg caaatctata taccggctaa gataaattat aatatagggt ttctaagtga 300
tgtgatctct ntgactaata tgacag 326

<210> 30658
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30658

agcttttact tatccaagca attcaatttc caaacatcat gaactaccct aaactaggaa 60
aacagagtaa aggtagaaaa atctgcccac aacacattca catcttacag ctttccttac 120
tcaaataccc cagtaacatt ctctttgttc cgattcggtta accgttggat cgacttgaaa 180

attttactgg agattcctag tacataagtc tacatthttga cegttgggat ctgctagaaa 240
 atgtccagaa tccaatatgt actacctttc ccataaccag caatgcacaa gcatttttct 300
 gcacatttgg tcaagttggc tgcacaattt gacagctttt tgctgcacaa tttggcagat 360
 ttcgaaattc ctcttaccca cantccaatt tgctcanatt ggantcctac agtcctaaat 420
 catgcataaa tcat 434

<210> 30659
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30659

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 attgatctac atcatgcaaa tttatgtgac acttctcatg cctaattgaa tgatntgatc 120
 gatctatcaa cgctctatth atacatacat aaaataacaa gacgatttaa ttcctttgac 180
 acggttctgt ccatgatgta caacaagggtg gttacatata cattatttaa ccaattaatg 240
 aaaataataa tatgtttcat caaaactgac ctgacccctc tcatgcttat tgagtgaagt 300
 gattaccggg cttgact 317

<210> 30660
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30660

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 gaagctctct tgttttggct ggccattttg acatattcgt gcataattac atagagacta 120
 acccattgct aatagtctat attgagacgg gtcaatgggg gtttatataa ctatgttaat 180
 tgctaatagt caatgcctat cagtatcatc acataatcca atgaccttag acttcattgt 240
 ataatagtaa cacaatcata ttaacataat aatttacata atatggttgt cattatgagg 300
 atcaatctct cagacaanaa gtcaaaggaa ggcggggacac aaggacagat gcaatntaaa 360
 catccaattt gttttatata tttcaatgag aaagagatga tatatcatca ctttgacgtt 420

caatgtatga caa

433

<210> 30661
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30661

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tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120
aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgtatg 180
taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaaa 240
acataactat gtaattgatt accaagaagc tgtaatcaat taccagtggag agaatttttg 300
aaaaatattc tgaaaagtca cgtgtctntc aaaagttttg aaaagccacc aaggacctat 360
aaatacgtga cttgtctacg aanaacatta gagttnttca ttagaaccta ngtgacatat 420
tctctcaaaa caaatcatt 439

<210> 30662
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30662

gcttcttgtc tcanaaatgg cctttgcaac ataatgccgc attgctctta tggccttcag 60
ataatgaggt atgatataac tcagaancaa atgaaatgaa gatcttctgt cttaattgct 120
taaaaatttg ttacgttgag acttaattaa ctattctctg tttatgggcc atttatttta 180
ttttgaccct taggataatg cctcogattt cataagggta ggtggaattc agagactgca 240
ggatggagaa tttattgttc tagtaagttt tttctttaat gcacactnta actnttatta 300
cagggtttct gctcttacct ttggatgcct aaattaaaga aacatctgaa catttgtaat 360
ttanagaacc ggnggaaaat agattcatct ttgacctata ttgacctta t 411

<210> 30663
<211> 387

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30663

ctatagaagt aaacaagata taaatatacct cacattatat ttttagcatat gtgcataaat 60
aacaaataag tcataagtca tcaagacata aagcatttgt ctgaggccct ggcattctaca 120
agtcctaatt ctcttctaatt ggcgtagaaa gagcctttgg ttagtggttc tgtgaagatg 180
tctgcaacgc tggttaattag tatctacaga tgctcaaaac acagtcacct ttgtcctcag 240
actaacggct aatngaccat caacatttac caagataagt ttttattgac atagaagggc 300
ttatcatatc aggatacttt atttgaaata catataataa ttttgaaaag cataaaaatt 360
tttatcaggc catcaagtat tcgacat 387

<210> 30664
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30664

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aatacaatac ggcgaaagta atgttagaga cagacaaaag gagttgcaag acatcattat 120
tattgtgcat aataacaagt tttctttttg gtgcagtgc taataacaag ttagtaataa 180
tcactacatg ttttcttttt cagttgtcgc ctttattcat cgaagtatga ctctaattct 240
gagtcttttt ttttgggtata aactaatctt gaatctgaat ggggtggttaa gtaaatctct 300
aattgaaatg atactttaat ctaaaattta aac 333

<210> 30665
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30665

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ttctgtaagt taacgaggtt gaagtataac ttctcaatgg ttcttttgaa aaattgcatt 120

tgcaggtgca agaaagataa ggactaccta tataagcatg aagtntaacc gcttcaagaa 180
 gctgggactt ggctttgata tgcttatgaa ggatagggac acaggctagt aaactagtgt 240
 ccaacaagag taatgttata aactattgtg cagattatct tcatgtattc attatgaata 300
 gaaagggttc aatccttagt gacaccctga tattcgaata tctgaaacgt gtaatttggt 360
 aagatgaaat tcaatcgtca cgatatttca tctatgcagt aatttggtgt atgttatgac 420
 tttggt 426

<210> 30666
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 30666

actgcatgta ctgctgctct aatctgactg tatgcatttt cccaaaggat aatttatgct 60
 ccaatataat acgaaaataa atgtcttgaa agaattgaaa atgtattata gaggatctca 120
 atccaatgag atactaattg ataagcctat tttaacctct acctaaaata aaatatacaa 180
 gatctaactc atatggctta attcgatata ag 212

<210> 30667
 <211> 182
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30667

cacattatth ccatgacaca tatgcaaaga tgatgatttg ganatnttat gcanaactgg 60
 tcatgcatgc acctatgcgg aactcaagt gtcaaatttt tatggatcatg ggatgctacg 120
 gctcangatt catttctctc attggttagtc aaccatgt atcaaaatat gttcttttat 180
 ca 182

<210> 30668
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 30668

tcaagctagg gccagattct cgtgcatgca gaggcttctt ctataaaaac tccaaactcc 60

ctttgcaaat ctgatttcag gcttaaataag gtggccttgt tcgtgctcgt gcgcttagcg 120
cagatctaga tcacttagcg cgcctaagtg gattgtggct taacgtgctt gtttcgctta 180
gcaaatagagc tgaagcgggtg cacttgatga cctggagtgt gacaccctct accccgacat 240
atatataaat aaataaaata tataaaaata tatttggtaaa caaaatcaca tgggtaaaaag 300
gttcacattc acttcattta ccaaataaaa cttattaaaa acaaattc 348

<210> 30669
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30669

ttacctcctt gagataagaa gctagagctt agctacacac accccactaa tagttaagct 60
cacctccatg ccaaaatata tgaaaatata aaaaagtctc tactagaaag actactcaaa 120
atgcccttaa atacaaggct aaaaccctat actactagaa tggccaaaat acaaggccca 180
gaagaaggan aacctattct aatatttaca aagacaagtg gacccaacct tgacctatgg 240
gctcaaaaat ctaccctgag gttcatgaga atccta 276

<210> 30670
<211> 398
<212> DNA
<213> Glycine max

<400> 30670

ctggatcctg gatcctggaa atcaaatttc ttcttgaacc ttgaagtgtt cttaatggaa 60
tcttgaactc attctttgat tcttgagatc atcatctttg gtatcatgaa ttggtgatga 120
tctttgagtt tttttgtatc acctttgtca tcatcaaaac ctctttgaat caatcctgat 180
tcaatatgaa gctggcttct acaatctccc ccattttgat gatgaccact ttctaaatca 240
agaaacacac acacacacac aactcacac actttttcta gccgatgact cacataaaat 300
tcctttctcc ccctttgggt tttgaatata tgcttggctt aaaatttaaag tgattactca 360
tgtgagtcct tggattaatc cctattctct cccctttg 398

<210> 30671

<211> 303
 <212> DNA
 <213> Glycine max

<400> 30671

gcattcgcta agcacgacac tcctgtgcta agcgcgagga agaatccaga agaagatgag 60
 ctgtacaagt tctaagcg caccacttca gttcatccac taagcgagaa aggcgcacta 120
 agccaaaaat cactaacgtg cgctaagcgg tccatacgtg cgctaagtgc acgagcacga 180
 acaaggccac ctatttaagc ctgaaatcag attttgtgaa gggagtttgg attgggattc 240
 agagctttgc atgtctaggg tttctagaga gagaaaggtc caagttctag agagttttga 300
 gag 303

<210> 30672
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 30672

agctttcact tacatacgaa gatttgtgag tgacaaacca tgttgtcatt cttgacaaga 60
 taaccaagag gcatgtccat gtatactccc tcaatcaaata cactattgaa aaacacatta 120
 tttaaatcaa gctgaaacat gttccaattt ctgtgaggtg caatggaaag aaacactctc 180
 attgccgtat gcttggcaac aagtgagaaa gtgtccaaaa aatcgatctc tgcttgtatg 240
 ttgttgtgtg taaccttttg caacaagacg agccttgtat ctatcaatgg agccatctgc 300
 tctatacttg accatataaa tccatctgca actgatgggt ctattatcgg gtg 353

<210> 30673
 <211> 229
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30673

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 tgattcttat ggcaagtcgt ccctttgtac ctatcgaaat caggtacctt gaactttgga 120
 gggatgacga cgtccggcac caatcaaagg tcggtcatgt ccgcaaattg ataatcgctg 180
 aatacttoga cagccctcaa cctcttttgc atgagatcga gntttccct 229

<210> 30674
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30674

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agcttttcga ttcattctat gtaccctggg tggccacat tgtgttttat gtatttctat 60
tctcgcttca tttacctttt ataccnctc ttgatgtgct taagccattt tacttaagtc 120
atctctcgct taacctaaaa ataaaataca atttcaccga tcgcttgaat tgtattatcc 180
gttaacttcn gttaaaatga attccgaccg ttcggtcgtg ccgtaaccac gttggatata 240
ataaatgagg tcacaaataa tataataatc aaaaaacatc tctttagtaa ataaagcgga 300
tatcaatcgg acgtttctct ttgggattct cattcttatt gaatngctaa taactaagtg 360
aact 364
```

<210> 30675
 <211> 186
 <212> DNA
 <213> Glycine max
 <400> 30675

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ttagtgaaaa catgattaca tatctaggat ttttttgctt gaatgttggg aataaggggg 60
gttttgtcat tggatacagt gtgatggctg cttatgatta tttgaccatc ttgagtcatt 120
gctatggtaa atgtgacatg ctgaatatag ctgttctaaa gctacatgct aaaaatcaaa 180
aaaaaa 186
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<210> 30676
 <211> 370
 <212> DNA
 <213> Glycine max
 <400> 30676

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gtgtaatcaa ttatgatcag attgtaaccg atgaaaatag agttttaaac attgaagaaa 60
ttttctaact ttagaacctt tcttcttagt cctacatgat gatgcatgat gcacgtatga 120
aatgatagag actaagatgc aacacacaat acaacagtca atacaaacgc cactcaagag 180
```

agttgggcat gtaaaagaca aaacttcttc aagttcttct ttaagcttca aggccaagtc 240
 tttattttgc tccccttata tctaacaatc tccccctttt ttggctttga tgatgccaaa 300
 cttgaattct ccatttgagt gcatttggag agtcttaaga gtagagactt ttcttagaca 360
 aacctgaatg 370

<210> 30677
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30677

agcttccagt ttattttcat attntcagct cctagtttat agcttataag ctttcaacta 60
 acttattaat tagttttacc aaattaaatt tgtagtttta taagttttac ctagtttata 120
 aatgaaaaaa taaattaagc taaaataaaa tgttcgtctt ttatgtattt tttgtttcta 180
 ctctgctcct ctaatttagn ctcttataac tttcggggaag ataatagaaa atggaatcga 240
 ttgaaacata gtagaatggg tgaatcatga atagaaagaa ttaacaatat gtcactctat 300
 tattaataaa tgtagatgta taatataatg gtcaaaaatt agattccatc atttgataaa 360
 aggagttgaa taaattatct ttttattcat tatgaaaaat aa 402

<210> 30678
 <211> 269
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30678

cttatttcat gtattcactg ttctctggt acttgattat tatatatatt tatctttgcc 60
 gagcaaaaaa caaatgtcta tgggcctaga gcatggcaat gcaggtgacc canaaatgga 120
 tctaaaatag actctgaaat cattntagaa tttgggctta gtgaaaaggc ctaactcatc 180
 ccatataacc gacttgtagg gtgaggattg ctcaaacttt ataagctcta ttttaagttat 240
 atctctagac tatgtgggac taaatactc 269

<210> 30679
 <211> 417
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30679

tgctttctct tgccatttcc tgtgaaggca aaaatttgga aagttagttt taccagtggg 60
acactactct taaaacaaga atggcataca acctcctccc ataaatacaa acatcaatgt 120
aaatttagag caagcttatg cgcatgtttc cttacgaacg ttcacttgcg gaagacatcc 180
tattaactaa gaaaaatgca cccatataca atcaaggtag cttcattacc tagattattt 240
acatgtacct ccaaggtgta tttgttattt acatcacaca cacctccttg gctgaattta 300
catacatgca tactcaaagc attntggggg accaaaaact gcacatgcgc tcatcttggt 360
atntctaaat accctacata tacaaacttc acgatgaatc ttgactgcct acacaat 417

<210> 30680

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30680

agcttcaatt ctaccactaa atgggtgtaat aagttcatat ctcaactntc atacctctac 60
attcattttt ctttctaate ctctatcaga tcagcactcc tcacatcttt caccttgaat 120
tgacaaaacg tgacctatat ttctatgtgt gtcttctgag gtatcattcc ctaattaatt 180
ttacattntg acaccttttc ctctctctct ttccaggatg ctgctagtta ccgtgatgag 240
ctaaacaata ttgccccaca ctctctttta aaatgttgca gcgatgctac aacattggta 300
tgatccctac tttcagttaa atacgtttta tctccgagtg atgtaagcta tctcaagaga 360
aatacagtta acaaggaaaa ccaacttcct tttttaaaca gtcttttaag ttgattgcac 420
t 421

<210> 30681

<211> 168

<212> DNA

<213> Glycine max

<400> 30681

agatattcca aactatttgc cctaattgaa aatctatttc actttgtact caagttatga 60

attaccttaa tgacgatctt ctttaagtaaa tgaaacaatg tggatatgaa tataaagcaa 120
 ttatgatata aggagattaa gggaagagaa aatgccaaact cagtttta 168

<210> 30682
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 30682
 ttgcttgcca ttgtgagaca tcagaggcta gtatttgaat aaatgtgggt aagaaaaatt 60
 caccaaattg atagagaaca atctaaaatc atacatctta ggcaaataag gcatgctagc 120
 ccccaacatt attgcatttt gattccatct ttacacattc aaattgttgt ttatttctcc 180
 tgttatcttt tcctttgctt tagtctaaat ttcaaactta caattcogta tctctttctt 240
 cttttgtttc tcttcatttc ttaataattg gatttgcac acttaagtac aaccaaagtc 300
 cctctggatt taattgttga acttcaattt caatctttac tactcgtgat aaaattacga 360
 cac 363

<210> 30683
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30683
 cgaccttaga atactcagct tctcgctcan aattcacttc ttggttggtg tttttggttt 60
 gtgctaaagg tgggtgtcgt cattggaagt gtggtagaca gactttgtgg tagatttagg 120
 gatggccttt gtggataact ggggtggggg taaggaggag gtttgttatt ggctgagtaa 180
 tgacattgtt ggggtgggtg gaaacttggc cgtataggaa tggcagtcac agcatggggt 240
 tctccctctt tctcaccctc ttcatttgcc ccagttttct cagtcgtcta 290

<210> 30684
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30684

agacaacggg ggaaatgagc gactcacgnc gtncnaanac ncngnacccg ggatcctgtc 60
 agtcacctgc ggcatgcaag cttcagttta ttttgcattt ggctgaaatt aatttaagtg 120
 ttgtattgcg tattccatga tgatacatc tgtgtgcgtg ctaaataaat tggctcactg 180
 cgatggctta tgagatgggt tgccttcaga aaatgggtgat tgcttatatt atcttagaga 240
 ttgctgatga gaaatgggtg accccctgat aacacgcata tgctgtgatc gctctcgtgt 300
 gcttgctata tcgacccatc accatatcta tacatcctat gactgcttta tgcactagaa 360
 ctggtcataa gactttctga gaatatatat cgttatgcat cgggcgttta cacacnggcc 420
 cggctttaca gaacatcatc ccaaaaaact gacatggctc tcttggtgaa tttccatact 480
 tagagtttga ctctctcg 498

<210> 30685
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30685

tagaatacta agctntgatc catgaanacg acaattatct ttttctcaga tgtcttattg 60
 agtccaataa tataacgaga cgctcgaaat tgantgttga agctctgagc taattcaaac 120
 gacaataact gtttactcgg atgtctgatt gagtcccgcc atatatcgag acgctcgaaa 180
 ttgaatgggg aaactctgag ccaattcaca cgacaataac attttatggg atgtgtaatt 240
 gcgtcccgta tcatatcgag acgctcgaaa ttgaatgggtg aaactttaga caattaaacg 300
 acataacttt tacttgatct ctgangagtc ccgaacat 338

<210> 30686
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30686

tagctttctc tgggccattt cctgtgaagg caaaaatttg gaaagttagt tttaccagtg 60
 ggacactact cttaaaacaa gaatggcata caacctctc ccataaatac aaacatcaat 120
 gtaaatttag agcaagctta tgcgcatgtt tccttacgaa cgttcacttg cggaagacat 180

cctattaact aagaaaaatg cacccatata caatcaaggt agcttcatta cctagattat 240
 ttacatgtac ctccaaggtg tatttggtat ttacatcaca cacacctoct tggctgaatt 300
 tacatacatg cataactcaaa gcattntggg gtaccaaaaa ctgcacatgc gctcatcttg 360
 gtatntctaa tacccttaca tatacaaact tcacgatgaa tcttgactgc ctacacaat 419

<210> 30687
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 30687

ccttgcctca tagaggcca ggatggactt tgcagccgaa tgatctagtt ccgctccgga 60
 gtatgacagt caccgcttta tgagcgctgt acaccagcat cgcttcgagg ccatcaaggg 120
 atggtcgttt ctccgggagc gacgcgttcc tctcatggac aacgagtatg ctgatttcaa 180
 tacgaaatag ggcgccggcg gtgggcatca ctggatactc ccatgccagcag tttgaccgga 240
 aatagtcctt gagtttatgc catgcttggc cacaagatg gcgtgctgac atagatcctg 300
 cgtagggcca gtgaatctgt ttgtgcca 328

<210> 30688
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 30688

acttgatgat tgttactgtt tctcaattat aagataagca ttgtgttatg acttggttct 60
 gattatcaat ttaagataat gatgactoct tcataactct ccatacctga agtgggtatgt 120
 aaagggtgata atatgtaatt tgatagttat ttaaggaaaa aatgcctaag tctatactaa 180
 aataagttgt cattattaaa atgatgttac aaatccactg attatatttg ggggtgaggt 240
 caatggctca agtatcacat tgaccactgc aagattttac ttcattgttaa tatactttaa 300
 ttctttatct gatgcaattt aatctatcta tcgcttatga ctacttaaa 349

<210> 30689
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30689

ntgcggatgt ggtcttcgcc ggtgaattgg tcgaagcgga tttgaaaaga ggaaaatgta 60
atcatcctgc ttggacgaat gagaaaattg gggcaaatga agatgggtgag aatgaaagag 120
aaacccatcc tgcgactgct gtttctacat gggaaactccg ccaccagctc aacaatgtca 180
ttacatagca aataacaacc cttctccgtt actaccacct aattaaccac aaacgccatc 240
ccttaatcat ccacaaaacc cacctgtcac aca 273

<210> 30690
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30690

agcttgaagt tatatgttaa aataactnng tgtattcttt ttacattctc ttgcaacagc 60
ctncacttga gnnttatcat tanannagtg ttcagggaat nntaatccaa acctattaan 120
nattgatccc aataanaatt gatnaatcga gcanaattgt tatanaaaaa tacctaaaca 180
cttcaatgcn agttcgggtt tgtgattctc atgttcaaaa ttgaactgag tcaaattgga 240
aacgtaacta aatttatatt agtcttattt tgtcttcttt ntttactgca attcctatat 300
atztatcttg aaatacaatt taaccttatt tgaacttata ttattatttc tgaataactt 360
gaagataatn tgcaatntag tctgtgattt agatcaagtt gtggttttat gaccagaatt 420
aatagtttga aatgatattt ctgtatatgc atttatg 456

<210> 30691
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30691

ggatgtgatt ggggacctga gactcaaacn tataaaaccc ngaatggaca tccggtgaac 60
ctttgaaatt ngaatttatt agagcttccg aggttcaatt tcgagtgtca atatatgtga 120
tgcgccatat atggacattc gagttaaatg ttatgaccct ttaaataatct caagagctta 180
cttggtaaat ttcgagcctc taacatatta tgcgccccag tcggacatac gtgtgaagag 240

ctatggccat tgaaacatct gcgacagtta tcgatgataa atttcgagct gatcgggtatt 300
 ataatagccc tgaatcggac atccgagtgt aaagatatga ccatttgata ttctcaagct 360
 ctttccgtga tgcatttgta gcctcttaga atataatgcg cccgatatag aatccgtgtg 420
 aaaagttatg atttataaag tctcagaagt ttcgagtaca ttccg 465

<210> 30692
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 30692

agcttgtttg ttataaagac ccaataattc tacctattgt tgtcattcta tttaccatgc 60
 attttatagt ttttagcata aaagtttagt ttaaattcctt tttgaaatta tcacttatac 120
 atgttatctc aacaatgctt caattctgaa cttaattcag gctaacatta acctcccata 180
 cttccatggg aaggataatg tagaggctta tttagattgg caaatgaagg ttgagcaatg 240
 aatgttcctt tagctaccct tagcttccaa gggtagctc tctatagggtg gacttcactt 300
 gttatggaaa gaaacattca ttgggacct ctaatagagt attggaatga cttgaaaa 358

<210> 30693
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30693

gagacngaga ccaacatggt agctatcatc gccaaagtacc aagaagagtt aggtctagcc 60
 acggggccacg agcatagaat cgcggtatgag tatgctcaag tatatgcgga aaaagaggct 120
 agaggaaggg tgatcgactc ttacaccaa gaggcaacca tatggatgga ccggttngct 180
 cttaccttga acgggagtca agaactatca cgcttgtag ccaaggccaa ggcatggca 240
 gacacctact ccaccncga agagattcat gggcttctcg gctattgcag catatgataa 300
 cttaatggcc acataataga aatcgtagg acttgatggc tctcaacctc actgatacga 360
 ctctttttga ataaatgagt ggtcatgttc tctcg 395

<210> 30694

<211> 207
 <212> DNA
 <213> Glycine max

<400> 30694

aaaattgatt ctcatcaccg aagctgtgcc tttatggaga atcctccttc ggcttatcga 60
 ttctatgtgg ataatggcga cagactgtgc atattcttca tcttatgcat attttctatt 120
 gttctgccct tgagctctca gaaagtcaac aatggtgggt cttgaatttg catcctgcat 180
 gatacatacc aagtgtccat ggcttgg 207

<210> 30695
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30695

agcttgtaat tgatgcttaa tggaggaaaa gaaagaggga gacaaagaga gatggcgagg 60
 gcacnaaatt gaaggaacaa aagagggaga gaagtggaac tttgaagtat gtctcacaag 120
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatgtata gactaggtag 180
 cttccttgag aagctntctt aagaaaactt ccttgagaag cttctttgag aaaacttgct 240
 tgagaagcta gagcttagct acacacaccc atctaaaaac taagctcacc tccttgagaa 300
 gcttccttga gaagctagag cttagctaca cacacccatc t 341

<210> 30696
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 30696

gaataccatt tttcggggaa aaaatgaaat cgacagagaa aagaaaaaat acaatacggc 60
 gaaggtaatt atgcaagcac aactatggga cattctcttg tgggtactact ctcggttgaa 120
 atagggattt cacataactg atattgaatt tggctcattt tttatagacg atctgacatg 180
 aactctcadc ctttgggtgct cctctaatacc atcgaagtat gactctaadc ttgagtcttt 240
 ctttctggta taaactaatc ttgagtctga atgggtgggt aagtaaattt ctaattgaaa 300
 tgatactcta atctaaaatt taaactccaa aggggtataac t 341

<210> 30697
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30697

agcttgtata ttttcccaat tcatggntat ttggagtaa attttgtaaa taaatcttgt 60
 tttatgggtta acgctgtctc tagaagattt ccattggatt taatgatgaa atctgtgcat 120
 tctcaagtga aaaaaaaggc taagttttga attgcaaaaa gtagcagttg ggctaagctc 180
 aacagttggg ctaagcgcaa cttcagcgcg cttagcgcaa aggagaattt ggtagagcat 240
 cagcatcaaa gttgcgcgct aagcgcgaga ttagtgcgct aagcgtagta ggtgccttca 300
 gccaggctaa gcgcgaaact ggtgctaagc tcaattccac tta 343

<210> 30698
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 30698

agctttctata ctaccccatt tctctccgc ttgggacat cgataagcca aagttcgtgg 60
 caaccaacac aagatgatat aactaaagtg tacataatca atcataagtc acaaccagat 120
 ataagccaat cgtccataag atgaaaccaa atatagtcca agcataaata acgtataacc 180
 aagtataatg caagcgtaaa agactaag 208

<210> 30699
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30699

catcaagctt gtgttcgctt agactacatc gcactacac cttttgtacc aggggcaagc 60
 gagcttgtna cacgcagaga ctacatcgctc ttctgcacct tttgtcatcc agagacggcg 120
 agtccgatga catgcggagg taccttatgg ttatccgcac cttttgtcag ccagaggcaa 180
 gcgagcccgt tgacacgcag agactaacat cgtcatctgc accttttgtc aaccaggggc 240

aagcaagctt gttgacacgc agagactaac gttgtcttct gcaccttttg tcatccagag 300
acggcgagtc tgatgacatg cgaggggtacc ttatgggttat ccgcaccttt tgtcatccag 360
agacngcgtg tccgatgaca ttcnngnggta ccatatgggt a 401

<210> 30700
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30700

tgatattatt tatctanggc atntcccatt ttaccttang tggcgaaga aagtcanaga 60
gagctgtnga cntctcnnga ttcttattcg cttagacnch natatcgcat ggggggagng 120
gcgttgctat ggccctggaa taatcgaaaa catagtatgt agtatgttgc ctcggtanga 180
aaactaaacc ttgtgcccac agatcccgtc tctctatact tctcattcac cttatgttat 240
ttcatatcgc agaaaacact cttggctttc catacgcgcg tgctttgtga atgcaaactt 300
gatatgaagt taccgcacta ctnatcatct tgagcggtat actcaacgaa ccacttgtgt 360
gaaactggga tgttataata aggccatgat atcgtggagg tctaagtata acgacaactc 420
gcgaagtcaa tgtgggctta cctgcgaaat acatgtggga catgtttacat gagcccaaca 480
aactcagggt ctcttttgtt tcaactaaga acgaacgtgt tg 522

<210> 30701
<211> 319
<212> DNA
<213> Glycine max

<400> 30701

tcagcaacta tggctattgc tacgcccact ctctctctcc atttcgcaa attccccatt 60
cgtcaaacgg attcatcttc tccaatacgc catcgagcc cttctggccg acggttgaat 120
ctctattacc ctctagtttc tcaaaggcta cttttttttt gtttgttctt ggttaaatga 180
aattgaaatt tcgaatttgg attctgagtt aaatgttaac cgggtggttg ttgatatttc 240
cttctgttct attggttaca gaattgcgtg ttggcactga tgtgcatttg gatcattgtt 300
gcaccgatgg ggatgggga 319

<210> 30702
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30702

aaaaaaacgc ggggacggaa ctgagcanag cactncaann cncctnngaac cgggatcctc 60
 tgagtcacct gcggcacatgca agctgccatt ggtatttgat ggtgcgatca tccactgaga 120
 ctaggcaagg ccggaccctn ctatacaagg aggctatggt attcaaagaa ctgtgtaatt 180
 tttaaaaccc aactaaaatg gtttgagccg tcaaactcttg gaacatctag tttcattctt 240
 ggtggatagg ttaagtgggt tcgtgggtgca agtatgactg aagacgacta acgtgaagct 300
 gtctgtggtg aagtgtttct atgggtggtga cactgtgtta aggtcatcaa gtttctcact 360
 aacgtggaat ctgttagatg ccaatatggc gatagctctc tctatgcat cctattggat 420
 atggaccgcc ttnattcacg catggtgagt ctctatttga agcacactag atgggtctgag 480
 ctgacatcaa tgctatatct tacgcg 506

<210> 30703
 <211> 93
 <212> DNA
 <213> Glycine max

<400> 30703

gtttgtgggt agtaatttga ctgatatgta ttcaaagtgc ggggagttgt ctgatgcatg 60
 taaagctttt gaggaaatgc cttgttaaga tgc 93

<210> 30704
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30704

agctntgatc canaatcctg actcaccata naccttgacc caaggtgaga atgccaatcc 60
 ttatcctcgg aagcaaaaaa agaggagaag aaaatttcca atcaaaggaa aaaggagaag 120
 aaaatntcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180

aaagaaattc ccaatcaaag agtgggagaa agaaaaaaag aaaagaaagg aaattcccaa 240
 ccaaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300
 tgtgcagaga ggtcttttga ccggacaata tctgaacaat acagaattgt caccaaattg 359

<210> 30705
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 30705

aacgttctct tgcacaagac atttatatca aagaatgcac ccatatacaa tcaaggcagc 60
 ttcgtcatct agattattta cacgtacctc caatgtgtat ttgtaactta tatcacacac 120
 atctccttgg ctaaattcac atacatgcat actcaaagca tgtaggggta ccaaaaattg 180
 cacatgtgca cctcttttga tatctaatac ctatacatat 220

<210> 30706
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30706

ctcacattca ctatcttcta catcatattc aaagttgtct aaataaataa taaagtcac 60
 tcgactcata gaaaatcata taagtctcat acaattaata tagaacctat atcctaattgt 120
 cacatcctat cagagcgtgg tggtcccgty tcctctagca tgagggttctt catagtcac 180
 cacctattca tctgctcccc cgaacacaag ttcaagatca tcacangatc caaacacaa 240
 aacacacagg gagtgagtta tcacattcct atgctataga gaaacatgac aattatatat 300
 acatattata taaatgagat accacttgct taaacatagc tcacgtaact tcaccacttc 360
 atcattcaaa attcactctt caatta 386

<210> 30707
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30707

atttacaaca gtgttacaac agaacctaac tgtntctaata tatatgggcc attaaatcta 60
 tcatgtgttg acagtaattg attagcccggt gaatttcctc tggagctgaa cacacttcgg 120
 ccatggccct tgctgtggct agtacatgcc ggagctcttg acttccattt aagggtcaagg 180
 cgaacctatc catccacatg gtcacttctt gatgcaatgc atcaatcacc ctacctcttg 240
 ctgtcttctc ggcgatatgct tgtgcaaga cctctactag ctttttctca tgggtcaaag 300
 attggtttaa ctcttctatg tactgcccta atatagctat aacctgcttt gcttcttggc 360
 ttctaagcgt gtagccaaac tattcttgga tctgagcaac cagtaactcc tcctttagac 420
 atgccatgac ctctgattgg tcttttctc 450

<210> 30708
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30708

tgaaaccttg tacactggaa tccagttagt ccttgatct ctgagcacct gcggagcagg 60
 aattttaact ttgacagtcc agttcagcgt ggcacatttg tatggtgtct gtggcaacga 120
 tgctgctcct gagatagcct acttcatact agatgaacct acatagtgtg gagccactg 180
 cccccggtgg ggctttgaac gctgtacact gaatttagca caatgacccc catcctgaac 240
 tggagcggtg caccgcgtgg tttaagaatt catgactccc tatgagatat ggcgcgctga 300
 ctattgggga cagtcatgac gttggggaga ttaactgaca aagcgcgctg gggacactct 360
 gatggtacgc gctaactcag tgggttatta caaaggaccg tgtccttaat ggggtccgagc 420
 ttggtccgcn 430

<210> 30709
 <211> 221
 <212> DNA
 <213> Glycine max
 <400> 30709

actggccagg cccaaacaca catgcaagac aaagtgagcg aaaccgagca gcgcgcagag 60
 aaaaaacgca gactgacagc tgaaccagta cctgacgcag aacaacacga aatggaaacc 120
 ccagcggaga cacgcacggg cggcccaccc cccgagacag aacagggcga cacaggcccc 180

221

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<223>      unsure at all n locations
<400>      30710
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<210>	30711
<211>	247
<212>	DNA
<213>	Glycine max
<400>	30711

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tggattgaac ccatacacia cctcaaaacg tgactgcttg gaggttctat gaaccaccct	120
gttgtatgcc aattctacat gacgaacata ctcaccccaa gacttatgga tgcccttcac	180
aagagccctt catacgggtgg ataacgacct attcactacc tatggttgcc catcaatttg	240
tggatga	247

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<223>      unsure at all n locations
<400>      30712
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agcttctctc ntttcttggt taattattat attctgtttg taagccttgt attttgctat 60
gtttttatga catttgaaca cttagtattt cttttaaata tttgtttagt atgactaaac 120
atgatgatta cttgctcttg gttgattatg gttatgagtt ttaaacttaa ttattttgat 180

gatatatgat tagtggtatg tacttttatt tggttattat gaatgactct ctggattata 240
 tgacattcta tgaagtatta tctttctaag atngatgaat gtgtaagtta tcttggttga 300
 tagatctcta ttctcttgta tgattagaaa tttatgtatg tttatatatg tacgcac 357

<210> 30713
 <211> 203
 <212> DNA
 <213> Glycine max

<400> 30713

aaagaatgtg actcttccaa ttgaatatgc atatctatgt tcacacacac tattgatcga 60
 ctaccaaaca gatgtaattg attacatcat ttcgatatta tttggaacgt tgcacattca 120
 gtttgaagc ttttcgaaaa ccatttagct attggttaatt gattacaata atctggtaat 180
 cgattactag acagtaaata ctc 203

<210> 30714
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30714

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 agngagaagt gatcgccgag cgaacngact ccgacactaa acagtcaata tcgagcgtcc 120
 tgatataatc cgggactcac tcagacatgc gattaataaa gtcgttgctg tttgaatgtg 180
 ctgagatcat taaactttca ttttgaacgt cttcatatat taccgcactc aatatgacat 240
 ccgagtcata agttattgtc gtttcgggtc gtaccgaacc tctgcatact gtttcaaaca 300
 tctcgaattt tacgaaactt tttatacatg tgagaaacag tttttaccag tcgtatctgc 360
 ttgcaactct tctattttta atcgcggtta tatatcacn 399

<210> 30715
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30715

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acaataccgg cacnagctct ttttcccggt tatttgattc cggccgcaag tttttgttgt 120
atgctgaggg cgacacgcca ccgggcgagc tacttgatgg tatagatcac acaccaggt 180
cctgtgcatg tgctataaga taccgcacta ctcaatctag cttaatagat gagagcaacc 240
atggatcaaa aggttctttt cgaagcgagg gatcagatac tagtcgactg gtgacgccta 300
gccaagtttt atgcacaaac ttaggacact tgctcaggtg gatacgctcg gtctctcacg 360
tgccgggatta tcaatgaaaa atgaatgtct ccattgtcgc tagtatatat tgaccgctga 420
aatgatcggg cgataatatt tggccgtact atagaaggaa atagaagtgt catataaacg 480
ctcaactagg cctccc 496

<210> 30716
<211> 453
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30716

tgaaaccttg aacactgaaa acnggtgatt cactggacac gggagactta gagcgactgc 60
ggcaagcttt ctaattcgtc ggcagcaaca gtgtttctca tcgctctaca tgacatagat 120
atctacgctg caaacaatg gtactaatac atcatctact cttatatcaa cacaacgcta 180
ttgggctatg catcacatct ctctgaggag ctctgcgttg gcatgctagc tcattaaaat 240
gggagcgtag aagcctgaca ccatgctaga gaagtctgga tagcgacgta gttcttttagc 300
tcttgtagca catcgtgagc tgatgacatg gcaccattgg ctgagagacg cccgatacta 360
acatatgaa cttcgtgta ctatattaca tgagtgtata tcaagaccaa ggcacggctc 420
tactgacgga tagagagccc agacactgac tgc 453

<210> 30717
<211> 348
<212> DNA
<213> Glycine max
<400> 30717

cgccaaccct ggcacttgcg gcaactacgc cgcccagagg ctaactgtga ccttaacacg 60

ctgggacccg cgacagagca gcagttgctc agtatcacac cggccactgc cggcaacgtc 120
 aaacagatga cactagaccc cccggcgacc gacatacagc gggcggcggt caggaaggaa 180
 aagcgcccaa tatgctgcaa ccgaacaccc aactcaatcc gaaaaagggg aagaacccaa 240
 aaccgcaagc cgacgaaata cccgaatcgc cccgatgcga aaacgatcag ccaacgcgca 300
 cccgaacgtc atgatacacg cagaccctc gcacacaaag tcaccaac 348

<210> 30718
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30718

tgtagattgt tagtggtgat gagggaaaag tccctcagca tcgaaggcta gctacatcga 60
 cacgtagaca acaaacaact atagatgttg caaaggatgt tgagaatgtg gataatgttg 120
 ctgatgagcc tcatgaggag cctcacaatc tagttacaaa ggatgtaggt ggtgattcac 180
 aggggttttcc aggcgggtcc caagatacat caatgttgat gtcatatgtt gatcatgtgg 240
 tagccaaagt gtggatagga gaggtagtta tttgtttaat taaaacttat ttaaataact 300
 atttatcatt ntaatttaca tanaataaat ttaattattt ttaaaacaat actgagttga 360
 agttggcctc tcatgg 376

<210> 30719
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30719

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 attaataata taattaatta actttntaaa cattatTTTT aatttttttt ttcacaaact 120
 aaaagagaga taaaagataa tagaaggctc tgagatgaaa gaaacatata cttttaattg 180
 tggagtaatt ttgaaaaaaa aattgattat tctattactt ttaattgttt gataccattt 240
 gtcattaaga tctccttcaa taggaacttt cttattttcca accattgaga gattaccctc 300
 gttggccaat gagaagaaag gcaaaatcaa agtntgtttt tggttttaat accccgtcta 360

ttgatgggcg catgtttgga cataaattgc aagagaatgg gggcaatgtg gcatgcccc 180
 ttgcttcaga atacaacata ngcctaaggc cttctcattc aaataactcaa ctccacaaaa 240
 caagcatgga ttcagatgca aattgcttca cgaattntac aaaaaatgag caactatagc 300
 accaaaacac atcaatggag agccaaataa ccaagggaaa ttgcacttac ttgtggggag 360
 tgatttatag cgt 373

<210> 30723
 <211> 1072
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30723

agctcggccg gaggcgggcg nacntcnagn actcgggacc cgtgctcgtg tgcgantagt 60
 caaataatag anaccacgt cgnccgntcnt acnacnctc cncncccccc cccaaggatg 120
 atgcagcagc gttttgcanc nnactagttn gngttgtaga aaactccnta ctctgcgang 180
 ancatacgtc antancnncg cntgtantcg acancagatc gacgtctacg atngacgata 240
 ncgacaacat cagcntatta cggagcgcacc agaccgatct gtactngtgc gtgcgatttt 300
 gantcgacat ctgcantgaa ctaagccacg gtccctgngtg acatccatcc atgtancgta 360
 tatgtacgta ctaagntaca cataactaatg tccgntcgcg ttgataacta cganancgtg 420
 cgttgctactg catcagactc atacgagcgt cgacntcatc tatctgtcct gtgnganana 480
 tcgtacactg ctcgatatgc tgctanagtc agtcgatagc tgcagtgatt acgcgtcgaa 540
 tgtactgtgn gaccngacga gtatgcatgc gngcatgacg cacacatact ccctccgtcg 600
 ctctgntgcn tcantnaagc gtacgcgatg agatcagcta ngacgcantc atcacgcgaa 660
 tcatagtcgc gcatgcagat cgagcatagc tcgataagtc tcgacacggc tgcgaentat 720
 cgtgcactac atcgtctatg actgaagtcg gtgtaatcga tgactcatga tatcgcannt 780
 ancatataga tgatcggaca cacagntcta cgagtatgtg tatcgtgtca acatgcgtat 840
 gaacaagtgt caacatgcac nagacgtacg tctccgntgc gatgaatatg gatgactagc 900
 ctacgtctac gctcactact gtanagtcgt cagccgacac tgctatactc tnatagtgcg 960
 aagagtatcg catacacgaa cgagtatang cgctgcacgc acncgatccg antgngtcta 1020
 cngngctcct aacgtgatac gcataccgca gactctggcg cacacgtact cg 1072

<210> 30724
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30724

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 tttatatgtt ggggggttaa agatgtttca gattccatgc tatcttcttt tcagttgcag 120
 ctttatgcc aatcaagtca ctacttgaat aaaaccaatg ggatgctgag cttcactagc 180
 gaattgatag gtaaagaata tagaatgtga tactaagtaa aaggtattca aacaaaagga 240
 taaagaggaa cggcacatag tgggcatttt cctaaataaa gtataaaagc atatgttctg 300
 aatgttntcc ctcataaaat attattgacc attgcatttc acaatntggt aatacctctg 360
 ctctctctcc attttctgat cactnttcta c 391

<210> 30725
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30725

gatgccccac atagaacncc natgcgtgna gggtcantct atagaacctg caagctctga 60
 tgggtgtcgac aagacatcac atgtntgtca tcatcaaaaa tgtggagaat gtgaatgtct 120
 ccnnncnccc ttttcttcta ttcgtaacata taatactaca atgctgcctc acctgattat 180
 cactttgctt ccaatactat ttataactgc tccaccaaac aatcctctgt actcacattc 240
 gctcaaatcc atccttgaca ttcgcaaccc tctttctctc tgacccagtt tccgctttga 300
 tctoctacaa tctaactctc tactcactcg ctatgtcacc gtcgcgcatt tccggcctct 360
 gcacctgcy caacctcct cgcctccgctc ttccgatctc gtccggaata aagcccgatc 420
 ccataacctc ccctatactt atccagtccc aatctcgcta tccttgccgt accacctcac 480
 ctatcgtctc tccctgtcac cctcc 505

<210> 30726
 <211> 359

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30726

agctntgatt caaaattctg actcaccata aaccttgacc caaggtgaga atgccaatcc 60
ttatcctcgg aagcaaaaaa agaggagaag aanatttcca atcaaaggaa aaaggagaag 120
aaaatttcca atcaaagaac aagagaaaga aaatttccaa tcaaaggaaa aaaaggaagc 180
aaagaaattc ccaatcaaag agtgggagaa agaaaaaag aaaagaaagg aaattcccaa 240
ccaaagaatg ggagaaagta aaaaagaaga aagctcctga tcgaaagaaa acagaagaaa 300
tgtgcagaga ggtcttttga ccggacaata tctgaacaat acagaattgt caccaaattg 359

<210> 30727
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30727

gcttatgcgc atatttcctt acaaacgttc tcttgacaaa gacatttatt cgaanaaatg 60
cacccatata caatcaaggc agcttcgtca tctagattat ttacacgtac ctccaagggtg 120
tatttgttac ttatatacaca cacatctcct tggctaaatt cacatacatg cataactcaaa 180
gcattttggg gtaccaaaaa ttgcacatgt gcacctcttg gcattttctaa tacctataca 240
tacgcaaact ttatgatgaa tcttgactat ccacacaata aggtgctaca tttcatgcct 300
ctttttcaag tttttgctac ctanagccgc atgcanaatc aagcatatct tcctttgctg 360
actaaaattg tattcaaatt aaaaggtata ntttttgtaa tatgttntct tcacataaca 420
tngcacatat ntatatatan tttttttttg tgagaacatt tgacta 466

<210> 30728
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30728

agctgactta cactctgagc atanaagtgt gtnttctttt ntagaatgta tatangtgta 60

tggcaattag aatatattaa atgttcttgt atgttgacat gggtaatagg atactttcta 120
cacatgcgcg tgtgcataaa tggattacat gagtttggtc taaatcagaa gggctagcac 180
gacatttttg cgtaaatata agcattatct tgtaaaacta acttctanat gtttgttctc 240
gcaggaaatg gccccgagga aacttgcttc anagagatcc angaaggata aagcggccga 300
aggaactagt tctgctcccg agtatgatag tcaccgcttt aggagcgtg aacaccagca 360
gcgcttcagg gccatcaggg atggtcattt ctccgggag 399

<210> 30729
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30729

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cacctactgc gctaagcccg gatgctcatt ggaatttgaa acttcaaatt gggcttagcg 120
tgaggttagg ctaagtgcac gggctttaaa ctcaaagtgc atattggcat gctaagtgcg 180
ccaaacaaaa atgctaaaat gaattagaac ttccataggt ggttaccttt acacaaaact 240
tttgcttctt ttgctgagct ctcttctgt gtgtgagcat tatgctgttg tgctcaagt 300
actttctaca tcttcttgca ttttaattccc atccaagtaa gtagtgcttc atttccattn 360
tcatactgtg aaacttagga tagacgatgt cttgctttgt tagcttgc 408

<210> 30730
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30730

agcttgaata tctntgatct accaaagaaa ctaatgagaa gaataaagat ttcttgtact 60
catctgctac agacataatg taagagctan aagggccctc tcaagaagtg cagacacctt 120
gagtttgctc aaaaagagtc tatgaattgc ttatctacat ggatcgatgc ctnttatgga 180
attgaacaga gtcattttat tcgatatgct aaattcttca ttggtgtaga atcttaaaca 240
atgcttttct attttttttt gattgttaac aattcacgta atctcttttt gaacaaattg 300

caccctaatt tct

313

<210> 30731
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30731

ggcacacctt acggataana tacctattgt gntaaatcca catagttata tcaagtatct 60
aaatctgacc cattaagccc atgaacctag gtggctttgc gaataacaaa cttctcttta 120
ttaagatcca tatatttgta ttgagtttta gggctcgacc cgtgaactta gtaaaacttta 180
tccatgaact cgtgaagtat ccatngaata cgcctaatat gtgtaagtat ttataatttg 240
gtatgttaaa gttatgggtca atntacattg tgattgctaa tttgtagtgt ataaaatatt 300
aatatgattt agtgtgatag atcttagctt agaaaatgat ttcatttggt tcttcaaatt 360
ttatatatat tcaactttttt tttaaaaata acttataata aatactttgt tttcaatata 420
tcatgtgtca gggcggtcca tgtatttgcg ggctttacga atcagatatg aattcttaga 480
aaaagtcta 489

<210> 30732
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30732

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tgggcccgtt gctactgcct ctgagttctt tgcctttctg ttgcaccatc tcccacgcct 120
tgtggacctt ctgaagtgcc tccacgttgg tcttattgaa gcctcgtgca atatcaggtg 180
tgagctttta ctctagtggg gctcctctca tagggtagcc aagctgtctt atagcaagaa 240
cgggattgta actgatgcaa ccccttgtcc ccatcaaggg aacatatgga aatcttccgc 300
acgaaataaa agtcctgggt cttccttctt tcatcgaggg aaccagtcac agacactcct 360
tc 362

<210> 30733

<211> 174
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30733

attactacac tcgattaaca cgtcttacct atcnatgttc caatcataat gtttctcggt 60
 gcatccaacg ttcgtctgta acagtcaacg tttaaattcg ggcttggcga tctaacttat 120
 gggattggac ataaatggac aactaaatct gtgaattaca ttaacaggga ctta 174

<210> 30734
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30734

tatctntgat ttcccgaaaa ctcacctcgt tttatctgtg cattccaaat tctcaaaaga 60
 gtcagtcttg tggcatatca nattgcatta cctccgtgtc tttctaacct ccacaatgtc 120
 tttcacatgt ctcatctcca taaatatatc catgatccat ctcacatggg cgaattagat 180
 gaagttcaag tgaaggagaa cttgacatat gaaacatttg ctttgaggat cgaggatagg 240
 cagacaaagc acttaagaac gaaagagatt ttatttgtca aggcagtctg gggagggtgt 300
 ttacgatagg aggcaatttg ggaactagag attcaaagtc gagaagccta tctgtcttg 360
 tctg 364

<210> 30735
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30735

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 tcgacccgga ggatcgtaaa tcaacgcggc cctgtggcaa tatgaatctc tggggcgtag 120
 actgatttat acgttgagag gaccgatgaa tctgacttag cagtaacctt attgttgcc 180
 ctagttgaaa atgcaagtgt tgatggactt atcatcgtgg ttgacgttct cttaaaaaat 240
 ctgataagcg agagagttaa atgcttgggt tgagctcagc gagttagtgt gcgtgggaaa 300

cg

302

<210> 30736
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30736

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tctggtaatg ttgggtgcta tgggtgcaatg ggagtggcag ttgtggagag gtgtggcgac 120
agagatctca cgtgacattt tgggaaccct agaggtaaga atagagaaaa acatttnata 180
accaagaatt taaagcgcca gagaatataa agtgggagct acatattgaa caaagagaag 240
aacattctaa gacgggtttt acaaaaccgt cttggaatga cagtcttcta aaacgatgtt 300
cacaaaactg tctctgttga anaatccata tntacaaaga tgtcactgtc ttatatacta 360

<210> 30737
<211> 187
<212> DNA
<213> Glycine max

<400> 30737

cctacttact tatactaacc caatcgcagc attaaagccc agttgttctg aaatgaagag 60
gcactccccg tatatagtaa gtaccatccc ggtttcacct ttctagctgc cgttctctta 120
cactttacag ctacgaaatc accttcaatc tactaaatta taccattttc tataaccatta 180
gtcgtca 187

<210> 30738
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30738

tgcttgggta ttatgtaata tgaatttcga catactatga aagaagggtc tgaattctga 60
tgatacccat aatcttggtta ggtgcccgtc actgtcagaa tatatatacct tatgggtgcat 120
taagttaatc tttcattatt tcaacttcaa tggttaacagt gttattatca cgatgagaag 180

gtgcgattat ntcgatatcc tgatcgtttc tttagtttaa gatataat tttt ttgttgatat 240
 aacttaatt tgggtcanaa caagttat ttt ataataaac aattatataa aaaaactaac 300
 tgatagatta tcatt 315

<210> 30739
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30739

tatagattat ctagttgcc a ctcacgaac ctttctgtg tcaactgcac acaaagagaa 60
 ngtagtcttt attctttgggt gtatccttct attatccttg ctaattgtta tgggaatctc 120
 tttctaccta ggcaactatg tgctgatcac aatatacata ttattgtaat gctcttaacg 180
 tattatcaat cccagcaatg gaacaaagct caagcgtgct gtaaaatgggt ggatcatcaag 240
 atatgggaca acttcaagac gttctgtgaa aggaatatct ctctttaaac tgctggaatg 300
 tgacatgtga ttaagcaaag aactacagtc tgtgtctatg aggtaaaaat cagtcttgcc 360
 tcctttga 368

<210> 30740
 <211> 767
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30740

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 nttttacctc cccacccccc cccnccaacg agagcgcgca gttggagaac anctagntag 120
 agcactcctc tacgtactgt gcanactgan acatatgatc gtcaaacanc tgntgtaggg 180
 actatctnca gctaattgacg tgatatctnc aatcatatgt gtatcatcac atctgtcgna 240
 ctatatacgc ctgtaaatgt ctgccgatca gcanggtact gagtattact tatctcagtc 300
 tagcaanact cgcgacgcgc tcagatacga cacaaccgc atcaatacag ttgagactac 360
 cgtcgtcagt cgacntaatc attatcgtgc tgacattcgt ctgcgacgta aaaactcact 420
 cacggatagg cgcacgcacg aagtgcgaact caaggatcga acagaatgcc aaccagatat 480

ctcgatacac gacatgcatg tactcgccgc aaactaactg acgagacgaa gatcgtatac 540
cagatctgat gaagctgcga cggcgaaact ccattgacca gactcgcnac tacaggcggg 600
cgataatcgg tcgcgggacc attctgtagg gcgcaacaac aacgacgatg cgtntttctca 660
ctgagtgcga gaagacanac aaatcgtaca tacgtgaggg cgaactacgt ccgtcgacga 720
gtacatccgc atggagctta atcacctcgc ctagaactaa tccatcg 767

<210> 30741
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30741

ctgctttttg tcttgcgagt tgattntagc cttattttca ccttacttat tagtcaattc 60
aattaagaat gagaaatccc atagagaaaa atgtccgatt gattttccgc tctattttac 120
taaaagatga tttttttatt attatattat cttatacctc tttttgatta ccaatgtgat 180
tacttgacga ccgaacggtc gtaatttatt ttaaccgaag ttaacggata atacaattca 240
actttcggtg gatatttttt tattnttaag tcaagcgaga aatgacttaa gctaaatggc 300
tt 302

<210> 30742
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30742

gttgcattgg aattgcgaaa gcccactcc atcttttagga tntgtttctg ccactctana 60
caaacaaatc agacgtaaca agacaattat agttgctgtt tgaatacctc actcactcaa 120
gtgtatcaca caattatggt ttttctctaa tgaaacactc ttgcctttta ccaactotaat 180
tccccttgag ttcttatgca attcaagaga ttatggccac aacagagaac aattcaccaa 240
tatgtgtaag gtaaggctag agaaacancg aaaagggttaa ccaagaaaaa ggctaacaat 300
gttttttaggc acaaatgaac gaaacaaatt tcagacttta tgaattcaag taacaatcct 360
tcatgcaacc aatata 376

<210> 30743
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30743

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 aattganatt ggagaatgca agattgacaa tgggaatgag aatgtgaaaa ttatgtgcaa 120
 attgcttcct atgtgaccaa tttataggac ccaattntaa aaaagtttaa tgtaaaaaaa 180
 atataaaaaa ttaaaacata acatgcatcc aaaattcaca gagcaattgt caattgtatg 240
 caacgttcta aaattcatag agtaacggtc aattgtggca aattgtcttt cttttctgca 300
 ttctttctct ttnttctttc tttctttctc ttcttcccc ttccaaaacc cacctcctat 360
 tgccctatct tctcttctct tctttctt 388

<210> 30744
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30744

ntanagcaca acatcacaga atctaggtgt ccaacacccc tcaattaatg ggtnntctaa 60
 gtttgtgaag tgaaattgag aatgaggtaa atttggagca aactctcacc tcacacaagt 120
 ctataacatc aatctaaact tgctcaaact ggatntacac ctaaaattcc accgaatcaa 180
 aatttgactc ctcaacaccc aattttgccc tagaaatggc tcttggttca ctttggtcat 240
 ttgtttttcc ctctagcaca gcctaacctt tctcataagt cctaaatggc atttcaagct 300
 aagattaatt cactctaacc tctacatact accaattcca gaattggcct tccagcccct 360
 caaatcact ctntntcact cataacacca catnttactt tctaagccta ggttattcta 420
 cattcctctt acagttttcc 439

<210> 30745
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30745

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agcttggttat gtatatgtta caatgttctt aaatntctaa aaagttttta agaacaacct   60
gtctaggttaa atcttttcag aaagacttct aacacaataa gaaaagaaca gtttttcata  120
attaccttat acaccagcta atgatagaag ctctttcata ttagtttttt tcaaaagata  180
tttgtaaatt atgtataaac taacattaac ttatagaaca gtttatctaa tttttttctt  240
tttattctct ttttttagta gtacttctaa atacatttat ccaaatagac ccttaatatt  300
aatatatatc aacaatactt acatccaaat tattacttag tcaaggcttg aaattattta  360
tataaaataa ccagattaat ta                                             382
```

<210> 30746
 <211> 645
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30746

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aggatacgca ggtgatgcgg acacngctgc gtcgtcgtcg tacacatctc gggcgggang   60
antcgtgccc cactcagcat gagagatggt ggangccatg ggaacagccg ccatgtgcac  120
gatatcactc agcgggtatta cgcaacgcgc cgatacaaac atcgacacga cgngtctgta  180
cggtcgtgtg tctcagcgca aggcggttgg atatgtggac gtgtccatca cttatcaaga  240
gtgatctctc tgtcgggtgca gaactatcag tgtcaggtaa taacacgagc agagtacata  300
cttggcgtga actagtactg gacggtaata cagcgggcga gacgattgtg cagtgtctat  360
ggccgcggac tcacatgtcc gcacgaaaac ggatgcgacg gttcgagtcg cgcgcatgct  420
cctgagcatc agatcagccc acagcatcac tggcatacat cgcgtggagg ctatcgcgcg  480
acgcttgaca atgtcgagcg ctcacacgcg aggtccgaac aagtacgact accgcgcgct  540
ctctcaacag cgctccacgg acgcaccgag cagaaatcgt tcgcgagaga tcggccggct  600
gaagttagtc ggcggactat ctcgtggcca ttcacgaatg gaacg                                             645
```

<210> 30747
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30747

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 tttccgccat caccactcgg gaaccgtcgg ggcttgaag gggttaatgc gtcggtggcg 120
 gaaatatgaa tgcggcgtcg ttttaaggtag ttcgagtttg gcgcacctgc agtgtgtgaa 180
 tgtacatgaa ctgcttggtt ttttgtttac gtcttcggag cagagaaaca actccaaaag 240
 tcatcgatat cgggcatagg tggtgcaacg tgtgaccggg cccaaattgt tgtgccgcaa 300
 cacctgcgtt g 311

<210> 30748
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30748

taatgaaata naatagaaca gaagtcataa aaacaaacat ccatgatctc attaatctct 60
 ctnccccatg aaatcctcac ataaatatca ttctgtacat ctcaattaca aaggttgtgt 120
 cggagaataa taaaactaag atcaaaccga taaggcatca ctaattacat gtggttgaac 180
 aatagagttc tcacacgcac tcaactgtcac tctatgtgag agaataacag aagatgatga 240
 ccaaattgat tgagagaaaa tagaggggac ttaaaatttg aaaaaaaact tctgcattct 300
 catgcacact cttgcacact cttcgtttca ttgatgatca ttagtatttt tatccacact 360
 gcatatgtag ctattat 377

<210> 30749
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30749

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 gaaaactggg gcaaatggag aggggtgagaa taaggagagaa gcccatgtta tgactgccat 120
 tcctgtacgg ccaagtttcc catcaaccga acaatgtcat tactcaacca ataacaaacc 180

ttctccttac ctactgccat tntatccaca aaggccatcc ctaaaatcaa ccacaaagcc 240
 tacctaccgc acttccaatg acaaacacca ccttttagcac aaacccaaaaa caccaaccaa 300
 gaagtgaatt ttgcagcgag aaagcctgta gaattcacco caattccagt gtcctatgct 360
 gacttgctcc cacatctact tgataatt 388

<210> 30750
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30750

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 gtaactttta tgaatgagaa acttgtgaga tacacttcaa agttccactt ctctcccttt 120
 ctctcttcaa ttttccatgc cactttctcc ctctctcatt ctctctctct tagagggtgaa 180
 gcttctcctt ccattgctta ttctctagtg gatgacacat cctctctcct cttctccttt 240
 atcttccgct gaaactccat gcgtgaaaat cactattgaa ggaccttatt gaagctcaaa 300
 gatccagctt ccatagaagc ttctcaagag agcttncatg aagtggatatc agatgacaag 360
 agtttcaagt aggtgctcct taaacctcca tttaatttca actttacctt ctctacatt 420
 ggtggttctt cattatctcc at 442

<210> 30751
 <211> 360
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30751

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 actaaaatta attctccatt aactaaatat taattaattt atagatatca tatcatctat 120
 gagagaaatt atactaaaga ggctcttata ctcttttggg ggggttattt gctctatcta 180
 gctcttggtt tctatatctt tgcaaatacc ttctcaatgg ctctgcatag tcgtcaaaac 240
 caagcgaccc caaggccag catatgtcat ccccggtcac tgtcttactc ctttccttcc 300
 tgcacttctc cgacgctcg ctggttacia agcttatgaa ctccgacacg cactcttgca 360

<210> 30752
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30752

tgttgtcaag acaagacaat tgtgttcaga gttggaaaac tacatgttgt tggaagtatg 60
 aanatgaata attactttct tttacttcct ttattatttc tgtcacttga ttccataatt 120
 atgcatgtta attgataggg acttgggtat taaaggggtgc ccaagtccca catagagtag 180
 tatttaagtg cttgggttctc ccccttaac aactagcttt taaaggtggg ttcaccaagt 240
 gcttgggtgc ttacattaat aatcctttca ccttttactc cctccattcc aaattgattg 300
 atgttttaggc attaaataat ccaatatatt actattcttt caagtatcaa atccaatgag 360
 atataaaaca tctatccttt atgcctctat aata 394

<210> 30753
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30753

agcttcctgt taaatacaaa acanacaaat tagacaaatt attatgaaaa aatngacgta 60
 aatgacatan attattagta acacttacca ctgcatgtct caactcgtca acatcagacc 120
 ttacagatgt taatgggtact gctgggtccc ggacctgagg gatatctgtc tctgggacct 180
 gaggggaacaa ctctggatgc gtagcataac catctggcan aggatctgat ggctgggtccg 240
 atgtcatgaa tggatgcgaa atgcggaaga actagtccat gtagtcgttg gcacactgna 300
 cctgcacaac gcacatctca cctgctgcaa tcatatggtc cgaatagtgc atcccacctg 360
 tgtgtatatc atcanacgac acccatgaat cgat 394

<210> 30754
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30754

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catcatgata aacattatac aaaagccatt cttgtggttg ctactagttt gtttcactac 120
atgcatgtat tttgtattgt tttaacactt atgttagatt gtttcattat ttgtttattc 180
tgaagttgga tttatattgc cattcattga gaatatatat tttatttttaaaaataaaatg 240
gtacaaaatg attgacaact gatacaaaat agaaatacat ttctttgtgc ttttgtgatc 300
aacaanaca tgtttccatg taaaggcatt tttgtaaaaa atacctanag cataacggta 360
tactcggcaa agagaggagg tgtttcaaca attntgtgtc ttgggttttcc tttttt 416

<210> 30755
<211> 364
<212> DNA
<213> Glycine max

<400> 30755

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aaaggtacgt tctaagcttt attgatgatt attcacgtaa agcttggtac tacttttttg 120
atgaaaaatc tgaacaaat actgtgtaca aaagcttcaa agcctgtgtt gaaaaggaag 180
ctggtatcta aattgtttgt ctaagataag atagagggtg tgaattcacc tctaaagagt 240
gtacagaatt atgcactaat caatgtatct ctaggcaatt gacgggtgcc tacacccac 300
aacagaaagg agtcgccgaa cgcacacacc gaactatcat gaatgttgta cgagctgtat 360
taca 364

<210> 30756
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30756

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agatttgaca aagctgtatg caacgggaac aattttgttc ctaatgaaat ctctctaacc 120
aagcccaaga tagaggccta tctaagattc tactcatgaa tcacagcgt gatgtgaca 180
agattatttg gcatgagggt gtctatctct aaactgggtg ggatcagtgc actatactct 240

cacttcaa ataatgactgat tgtccatcga ctgcggagac cttattgaac cacctgagat 300
 tgcgacatgc tggattgacc cggaagagtc aatgcgggtcc cagattattc tfgctatgta 360
 ttcactactc tatgagatgc gcccttgtc aaaaattgggt aaaccctatt agaggggaaca 420
 accgagaacc tctctgtgaa cgagaatata tttcttaagg gccggaagg tttct 475

<210> 30757
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30757

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 ttgttctgaa acgaaactaa agaaacaaag gaaagggaga aaatagaaag ctaagttcta 120
 agatacaaaa tgcccaaggc atttgtcggg gaattcgagg ggagtaaaca ccagacaaat 180
 ttacaccaat gagccatgag caaccacata aggaattta acaccacact ttaacccaaa 240
 accttaaggc tcaagtttat gggctctctc cttacttata tgggtgctcaa cttttcaact 300
 tccatcctat gtgtgctcaa cttttatggg agcaaaaaga gaagctccat gctttgtcat 360
 ccagtcaaca cagtcaatgg ggattcatct tcata 395

<210> 30758
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30758

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 cagtttaaga tctcttatag ctgtcagaag gtctcttaat gagctcattt catactgtgt 120
 gcaagaagag gatagactga agcacgaaag gactaaaagt gctcatgtag taagtacttc 180
 taataaccag ggccaaagag aaaggactga cgagcccaag aatgaaacta ccaatgggcc 240
 aacacaaaag aaacaaaatc aatgtgacaa ctgggtcttt ttagtagcg ctgacattgt 300
 aagaagaaat gtccaaatat cattc 325

<210> 30759

<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30759

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ccatcatatc tcccagaacc caataccac aataatttat gtgagaagaa gtctacccaa 120
acctgaaatt tgaagtccca caacgtagag gtgcgcttca cgactccgaa aatggcttcc 180
ttttgcgatt tggagcagat atgggtagta aagtttggag ctttgatgga ggcttcagga 240
gaggaagaaa gggagaaaaa gcaacgtgag ggagagggaa tagcttctga acttttggct 300
gagtgaagag agatgaacgt ggcttttagt ataataaggc ttcctttntt tattttttta 360
caagggtatg ccacatgtct ccttttgagt 390

<210> 30760
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30760

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atagtcacgc tctggctata caacttttaa tgtgaatatt aagggatagg gctattttct 120
aatcctgctg cggagattat gactctcgcg tacatatgag aagtcaaact cacgggtttt 180
ttatatgtgt ctggcgacag actcaatgca tatgtccaac agagctaagg tcctccattg 240
gatggggaac aatcaaggct aacacgagct ctgtttatgc gtgttttact cgggtgcgaat 300
actactgacc gcggacttga ttcttgcacg gaccactgtt acactgacca ggcttagtag 360
ctgctctgag ggcagatttg aaggcggcta agtttaagta ctaatgaagc gcttatgtaa 420
ccccggcgca taaaaatttc tctggcgctc ggggtgggta taccgattaa cgggtttggc 480
accatggaca tgcac 495

<210> 30761
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 30761

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 cttttgtttt ctgaaatcta cctcattaaa taaacaaaga gatcttggtt catctgttct 120
 tgcagttcca ccttttctca tatcattttg catgtttttg tttctttggt cttgcttggt 180
 atagatatga gggtcgattc tttgaggatc ctaacaacga gggtttgaca atcgattntg 240
 atagagatat aagccaaacg ataaacgagg aagaggaaga ggacgtcctg tcaccagagt 300
 tggagagggtt ggtcgctcac gatgaaacgt gaatg 335

<210> 30762
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30762

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 tgcacttctc tctctgtcga atntgctgag gaaaattatc ttcgtgaaga aaattcaagc 120
 cgaggcgctt tcgtaacggt tccgtgagta attacgcgaa gattctcgac cgttcttcaa 180
 ggtccatcgc tcgttcttcg ttttcttcag tcttcaacgg gtaagtacct ccaaccagct 240
 tttcatttca ttctatgtac ccgtgggtggt gcacattctg tttcatgtat tagtattccc 300
 gttctcattt gctttatata ccccc 325

<210> 30763
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 30763

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 tctccccctt tggcatcaac ataaagccaa agtgtgtata gagacataaa atcatacaca 120
 aactcataat catccaagca ttttaatcca tacaacaagc aaggaggaca ataattcata 180
 cataaactaa gcaaggaaga taataattca tccattaact ataataaagc gtcaaataat 240
 tagaaagtca tccaagataa ccgaaataaa aagactaatt tagagagtaa tataactaata 300

agtgtatcaa atatgtcata agacatcaac acatataaca aatcacttgt ctaagtcact 360
agcatctaga agttctaatt ctcttctaa 389

<210> 30764
<211> 327
<212> DNA
<213> Glycine max

<400> 30764

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cttgccctctc atcggagata agatgaaagc aaacatagga cactgatctc gtccgtcctg 120
ccgttccccg gatgacgact caccggctcta ttccttcggt tttcttctgc atacaacaaa 180
atacgaacta caacgagaac aacgactatt atgtacatat acacatatat acatatccgg 240
cgaaggaacc gaaccagaaa acaccagaat tacgggtttc ccagtcacca gaagcttcgc 300
gcttgacaat ggaggacaca tgaatag 327

<210> 30765
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30765

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caaaaagccc aagagaatga gttcaagatt gagtcaagaa cacttcaaga atcatgagaa 120
atttgatttc aagattcaag aatcaagttt caagaatcaa gaatcaagaa taatcaagtt 180
gaagattcaa gaatcaagaa aagactcaat caagataagt actaaatfff tttttcataa 240
cattgagtag cacatgaagt nttcacataa gctttttacca aagagttttt actgtctggt 300
aatcgattac cagnttactg taatcgatta ccagtagcan aagttgttnt caaaagcttt 360
cagattgaat ttacaac 377

<210> 30766
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30766

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ttatattcct aaagaattct gtcctaacaa aaccaagac agagtcctag caagtgtagt 120
tctcatgagt caaagtgcc aaggtagcaa gtttatttac acatgagttt tcctctctat 180
aaacatgtga gtaacaaaaa actatatttt tacaaaaaan aataaacatt ttcccattta 240
ctatggagac attaaggaac caacaaagga ttgctgaaag cctgaatgac caatgaagag 300
tcacattcaa tccacaaatt attccagcct ttgcacttca ctacttctaa ggtgatgcct 360
acaccttagc aaaaaaattt gtttaacccc tata 394

<210> 30767

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30767

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gaactttgag ttgtgtctca caagactctc attcatcana gttacaacta gtgttacaca 120
tgcttctatt tatagactan gtagcttcct tgacaagctn tcttgagaaa acttccttga 180
gaagcttctt tgagaaaact tccttgagaa gctagagctt agctacacac acccctctta 240
taactaagct cacctccttg agaagcttcc ttaagaagat tcctaaacaa gttagagctt 300
agctacacat acctctctaa tagctaagct cacctncttg agatga 346

<210> 30768

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30768

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tgctataaga gtagtgtccc actggtaaaa ttaactttcc aaatgggttc cttcgcatga 120
atggccacga ggaagcttgc ctcaaagagg tccacgaaag acaaggcggc cgaatgaact 180
cattccgctc cggagtagca cagtcaccgc tttaggagcg ctgtacacca gcaactgctt 240

caagccatca aaggatgggt cgttctccag gagcgacgag tccagctcaa ggacgacgaa 300
tatactgatt ttcaggagga aataaggcgc ccgcgggtggg catcactggg tactcctatc 360
gccaagttta tacagatata gtcctttgag tttatgccaa tgccttggcc acagaaggcg 420
tgcgtgacat gatatcctgc gttacggggtc agtggatccc gttcaag 467

<210> 30769
<211> 384
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30769

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ttcttcattt cgggcccatt ttgtttctcg ctctaacgct tcaactgtgg tcatgttgat 180
atccttcaat tcatcacact cttttttgac cctagtgact ttcgtcttca gcttctcttt 240
caccactctt gtctttttga gttgtacttt caaagcttgc acttcttcac tttccttagg 300
aatttcagcc tttntccac ttagacattn tagctntggg agccaagtca tcccttgctg 360
tctagacttc aaccacttgt gata 384

<210> 30770
<211> 557
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30770

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cacgtgggtc ataccttaga taacctanag cacttgtatt cactatagat tatggcgtag 120
atgcgtatct tgaaccatat atttgtacta ctccgcgga tctattgaac tattgaatag 180
aattcagtgc tcggctgctg aatcactcga taattcggcg taaagaacgc cgcgtgctcg 240
ttatatattc agatgtaaga ctgaactggc cagagtgttg aagacttctc ggtcgtcctc 300
gcgcacgcac atgtcgggac tcataaatgc tgggttgaga tctctcgac ttattaaaat 360
atgtctacgt cgagcatgcc taatatctcg tagccaatag cacggtgaaa agacatgcgg 420

cgctcagagg acgcgcacat agtgagcgtc tattctggta gtatattata cgtgctgcat 480
atcggcacat aaatgtaata gagaccagtg gcgcagtcgg accggcacaa gtactcggca 540
tgatttggcg tcaaacg 557

<210> 30771
<211> 320
<212> DNA
<213> Glycine max

<400> 30771
agcttcaaat ggaagagaga gaccgatcac gagcacatag catggtctta aaagaagagt 60
tagccgcttg ctcaagggtcc aaaaggaact tgactcaacg tttatgagag atagagacca 120
gcatgttagc tatcatcacc aagtaccaag aagaactaag tctagccacg gccacaagc 180
atatggtggc ggacgagtat gccaagtct acgcggaaaa agaggctaga ggaaggggtga 240
tcgactcggt acaccaagag gaaacatgt ggatggaccg atttgctctt accttgaacg 300
ggagtcaaga acttccccga 320

<210> 30772
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30772
tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
gccccacatt atttccatga cacanatgca aaaatgatga tttggaaatt ntatgcaaaa 120
ctggtcatgc atgcacctat gcggacactc aagtgtcaaa tttttatggt catgtgatgc 180
tagggctcaa gattcatttc ctctatttta gatcaacca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccgagtcca ttttgggtac tcgggagaat nttcacagca 300
ttcacccttc aggtgtgcac acattttttt ttcaacaact agctatgatc 350

<210> 30773
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30773

agcttgactt gatgtaagac acatcttctt caacctttgt cattcttgac tccatntcat 60
tgaagcactt atgcacttgc aattccaaag tatcaaacct ctcaccaaca aaggtttgaa 120
gaccatcaaa cctgtccata atctttgaaa gaagagatga atcttctcct tcatgtcctt 180
cttcaccaac atttctagca cccttcttca cccaagagcc atcatgctcc tttacataac 240
caaaggatgc tatgactgaa gtgcctataa ggaatgatct cttgattgga acacaagggt 300
cagaatcaag agggatattg aagtgttgaa ggaaaagggt aacaagatga ggataaggca 360
atgggtcatt caatcgcaat gccttatgca tgcgatatct aac 403

<210> 30774

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30774

tcgatggaga agaataaagc gcgagcaaaa tagggctcgc aatctaatat tntacaatgt 60
atgtacaaca tcggttatca atacaaaacc gatgttaact aaatgatgtt aacattaaca 120
tcggttttct acaacaaacc gatgttaacc tatcttatgt taacatcggt tnttctaana 180
atcgatgtta acatactgac tttaacatcg gttattcaaa aaccgatgtt accagtttca 240
tgttaacatc ggttttttaa caactgatgt taacataagc taattaacat cggtttttcta 300
aaaaaccgat gttaacaaat tcacattaat tacaattatg ccaccatgtt aacgttaaca 360
tcggnnttga ggaaaaccga tggttaaact acgatgttaa at 402

<210> 30775

<211> 314

<212> DNA

<213> Glycine max

<400> 30775

acatgtcgct gggttcagcc ttgccgtctt gagaagattg taacctgctt ttgctggcat 60
gttatactca aggtttgcat atttgagtgt cgttggagat ctttcttacc ttgcttattt 120
tatcaggggc ttcgctcaga aagatggtgc taccatctgc attcatggca cagaggataa 180
agtactgggg ttgaaagcca aatatgagga cgttgcatgg ggattttaga gcaactgagat 240

cagagagaac tttgattctt tctcagtcag ggcggggcga tgtatggagt atttataggc 300
 tgatctgagg attc 314

<210> 30776
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 30776
 ctaagatacg caagcttgta ttgagaatct cttcttatta ataagatgcc aactaacata 60
 ttcttgagac ctatatgtcg gcaattgcc a gctgagaaac acacgctcac acacattaaa 120
 acatctactc cctcccatcat accaaccag ttatgtgagc catcattaac tttacttatg 180
 atgattatca ttataaatac ataaatatta taaaacagag aaaactgcct ggataccagt 240
 tcttcttgat tcttgagagt ggttggtgat ataggctagc aacaactctt ggaaaatgca 300
 tggcattctt catagagaga caat 324

<210> 30777
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30777
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 gtaaaaaact ccgatttaat aatacccact gcatgtaaag ggtggtgaag ttggcaatcc 120
 tatcttttat caatgatngc aaggatatcc ttatacttcc cttcattgnt attgaaagct 180
 ctttgaattg attctttggc ctatocattg cttcataaat gaaaccatt gcaggttntt 240
 ttttcattat ccaccaacct caacacactt acaagaggcc ccatagcctt taaagcataa 300
 acaacatcat tccanaatga tggcgtaaga atacatatgt ggcttgcttc cccttgggct 360
 ctttagctgc cttagacttc aaccattcat ctga 394

<210> 30778
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 30778

tctccgaggg actcttgatc ctgttacttc catattatct cttcatatct tctcttacac 60
tctcaaagta tacaaatatt tcatttaaac ctcataaatc atggattctt gttctatctt 120
ttaatgctgt ggggtgcttg aatcatgaaa tatcattgga ctttagttct atgttgcaaa 180
agaatgaaac tacatcaatt tgaattttga tctaagacct tgctcagttt ttatttaaatt 240
cttgagatg aattgttagt aatcttagtc aattttttacg ttttctgtgt ctctagatcc 300
cgtggaatg tttttggaat tgctgagcac tctccaatg ttaatcattt tcgtactctt 360
ttctaaacac tatgtgattt ttatatgtat cactacttcc tatattatac agtttttata 420
ttgatacacc atgca 435

<210> 30779

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30779

agcttcctct gtgccatttc ctgcgaaggc aaacatttgg aaagttagtt ttaccaagaa 60
atgctactct tanaacanaa atggcataca acctcctcca ataaacacaa acatcaatgt 120
aaatntagag caaactcatg cacatacttc cttatgaaca ttcactcgca caagatatct 180
ttctatctaa gaaaaatgca cccatgcaca atcaaggcac cttcattacc tagattatnt 240
atatgtactt ncaaggtgta tntgctacct acatcacatg cacttncttg gctaaatnta 300
catacatgta tactcaaagc attttggcta ccanaaattg cacacgtgca cattctggta 360
tttccaatac ctatgcatat acaaactntg tgatgaatct tggctatcta ca 412

<210> 30780

<211> 321

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30780

tataagcagc acanattggag aagttgttca attcatggca tcttcctatc taaactcaag 60
ctttgccgtc aattaaccta aagcacaact tgatttatgg ctttgaactt tgaaaattga 120

ataaaatcca ataaacttat atttcgattc taacaaacta acatttaca ttttaaaaaa 180
taggttctaa ccgcacaaat ggaaaagttg ttcaattcat ggcattcttct tatctaaact 240
caagtttttg ccgtcattaa cctgaggcac aacttgatta ggactatgaa ctgtgaaaat 300
gaatccaccc aattacttat a 321

<210> 30781
<211> 401
<212> DNA
<213> Glycine max

<400> 30781

tttcttctct atgaagcttc ctagtctata aatagaagca tgtgtaacac ttgttgtaac 60
tttgatgaat gagagtcttg tgagacacac ttcatagttc cacttctctc cctcttttat 120
tccttcaatt tcgtgctccc cctctctctt ttctctccct ctttcttttc ctccattgaa 180
gcattccttc aagcttctta tccaaggctc atcttgggtg tgaagctcct tcttccatgg 240
cttattccct agtggatggc acctccgctc acctcttctc ctttgacttc cgctgcattc 300
ccatggtaga aaatcaccat taaaggacct cattgaagct catagatcca gcctccatag 360
aagccccaca agtaagcttc catcataagt gcactgacct t 401

<210> 30782
<211> 203
<212> DNA
<213> Glycine max

<400> 30782

tgactatgcy agttgattta gccttagttt ctctatatattt attattcaat tcgactaaga 60
atgagaaatc tcaaagagaa aacgtccgat tgattattcg ctttatttcg ctaacagatg 120
gttggtgatt atgatattaa ttgtttacct ctattttgat tgccaacgtg gttacggcac 180
gaccgatcgg tctgattttt tta 203

<210> 30783
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30783

accgaaaggg acacgacaaa acgaagaaga agcgaaggca acaacaagca ccggaacaa 480
acgacgagag agacaagacg cccagggcgg gagcggaacg caggcaaagc aaggcgagca 540
cggaaccac ggaaggaccg gaaacaagag caaacggag cgaacgacga c 591

<210> 30786
<211> 223
<212> DNA
<213> Glycine max

<400> 30786

tgacccctgc attacgcgac ctatgaatct cagcttctca tatattatgt ggctgaacgg 60
actttttttg aaagtatgac cattgatatc tcgagacctt ggtagtcaat atcaagcgta 120
tttatgtatt atgccccga atgccttttc tgtgacatgt atgaccattt gtattctcga 180
aagcatcgat ggtcattatg agcctcttga gcattatgcc cat 223

<210> 30787
<211> 202
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30787

tttctntatg agaaagagac atatcaacga atgttactac atagcgatta tagagcattg 60
gatttttagc agatttaaga ttctatttag tgttttataa acctatgtaa agagtctatg 120
tcaatgccca cttttttttt taatttctct ttgttccta catctctttc cttttggatt 180
tttttgggtg gggggggggg gg 202

<210> 30788
<211> 370
<212> DNA
<213> Glycine max

<400> 30788

cgcatcagtt gaggctcggg ttcttcgggc tccatgggta atcatctcat aattaattaa 60
attgtttaca aatgttggtt gcttttgcac ttttgccgtt atgcttatat tatattttgg 120
ctcttcttgt ccctttagtt gaaatatcat gacactggaa gagagaaaga atacttgcca 180

aacttttagag tcttcatatc atggtgccta tat 453

<210> 30791
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30791

atctgatttt ggattggcaa agctaaatga tgaggacana acccatntga gcaccagaat 60
agctggcact tagtgagtgt ccatacattt cctttnttaa ccatttgcac tgatcattac 120
tgagctatat gttggatcca ttatcatact atattataat ttcgccaagc ttgatgatgg 180
ggataaaacc catttgagca ttaaaatagc tgacacttag tgagttccca tacatttcct 240
ttttaccatt ntgcattgat cattattgag gtatatgtta gacacgtaca ttatcataat 300
ataataataa tcaagaaaaa caatagacac catgtattga aatacctcat gatcaaatnt 360
anatggaact tacact 376

<210> 30792
<211> 283
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30792

ataatatagg atgattatgg atccaacata taccttagtc atgatcaatg cagcatggta 60
acaaaggaaa tgtatggaaa ctactangt gccagctatt cttgtgctca catgggtttc 120
tgcctcatca ttaagcttag cctagtccaa atcaaatac ttgggggttg gatctttata 180
ccacaacaca ttattggcct tgatgtccct atgaacaatc ttcattgttg actcttcacg 240
aaagtagcca aacctatagc gataccaaca cgaaatctat gct 283

<210> 30793
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30793

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ccaagcccct accttcgagg ggcaactccc tccttatgcc gattatcccc tgcaagaaga 120
 cgatgaagaa gatgcccgtc taggcctctt actgcccctc aaggatccgg ccccccatga 180
 attgccccaa ccaaacatag tccgccatgt cccatctcca cccgcacccg ttaaagaatc 240
 tgttcccttt gcaaaagata gggaaagatt gatttacttg aagagaggct gagggcggta 300
 gaaggcctcg acaactaccc gttctcggat ntggcggatc tgtgtctggt acctgacatc 360
 gtcacccctc ccaag 375

<210> 30794
 <211> 810
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30794

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 ctaatcnant ccntactanc nancncaga gagcgcngat tggacgccat taggtagana 120
 ngccattgat aganacgtac aaccnaccga cgatcgacag cantaaactat aaaacgatgc 180
 gatcgagacg tcactacgta tatgtgtcac acaacgcata tcactaccca taagaacgca 240
 ganagcgacg cactatatga gacagcgagc ttatgaatat catcagcnga gcagtacgca 300
 ctcaactnct gacgcancct nnatgtagac ggcatgatat acatcgacgc acatgaatga 360
 gatacagaca cgcatgaacg cacacgagaa gcggagnang atgatacgaa cacagccgac 420
 tacaactgcg aggctgtag gcacatacga cagcatacac tcgacgacgt agtctgcaga 480
 aacgagacag agagaagata cacgaagata gtcaacttaa cacagcatag gacaatacca 540
 acagatcgag catgaaaata acggctggat gcacaacgga gctgacgaca gcgccaacag 600
 acgactgtga tgcacgagac gtacaaacat caggacgtca ctgcgatca cacctcacgc 660
 agagtaacaa ccctgccaca cgagttagca gaacgaacac gagcagacga ccgacgagca 720
 ttgtgctcta gggagatcgc acaacgagga cacactgata cgacatagac ggagtacaca 780
 aactgatctc actagacaca gccaacgcc 810

<210> 30795
 <211> 326
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30795

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agctttttatt taataaaatt aattaaaaaa ataaggattt tttttacgta aaggctatag 60
atacaaagct tcacactaaa aaagaaacat ctcaactacg ttgacaaccc tcctcctagt 120
gatcacaagc aaaggcgtac aattttattca aataaaaaga agaaatagat gaccaacact 180
acgaaaagaa gtcttgtatg atgtctatgt taagatgggt atcgaaaagc tctcctcggt 240
taagtagtgg tggcattttc gtaaacaatt ataacttttg aaagacggtc attgcanaac 300
cgtcttttaa acaacttttc aaagat 326
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<210> 30796

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30796

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gcgctttgac ccctgttgan ccaatctaga cgtgacacct tggcataagc ggcctcagga 60
tgtccagatg gagaggggtt tcagactggt gccccgatac gtttgacggt ttagatctgg 120
tcacaagaag tgtggactaa cctacttcca cgatactttg gattaatcag aaactatatc 180
acgagctact ggcaacacac ataattgggg ggcatgaggt tgcgacacag caccatatct 240
gattactgtt gcattggaca cagcatgata cccacatatg agtctccgac gaaagcttac 300
acccaacga ctgacctctg cctggatgca caatctatct gcattgacaa tgacaaagga 360
tggtttctgg ctaatatcgg catttaacac gcgctcaatg tagtcaactg attaaaatgg 420
gtctcttttc cggaatctaa agggacctca tagctagata acacttccga ataaagatcg 480
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<210> 30797

<211> 413

<212> DNA

<213> Glycine max

<400> 30797

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actatatgcc tcgggcacac aagctatctc catactgggt cgatgagatc aatataatct 60
cgcaaccttg tcagcaaaga actcatgagg ttataatgct tcaactaac tgactcacca 120
```


tacaagacca tttgctcttg ctgtgcatgc aatctggagc aattgaacac cctgaagcct 180
atgctgcaga catcaacaaa agacctgctc tacctcaaca acaaaatctg ccacaacaga 240
aaaataatga cctctccagc aatatgaaca tatccaggag gaggaatcca ttcaacctta 300
aatggcggag ccgtcacaca accacaacaa caagcacaa cctatttcta atgctactg 360
gacaagaagc catatgtcca tcaccatcca cagcacacaa cacagcacag ccc 413

<210> 30798
<211> 238
<212> DNA
<213> Glycine max

<400> 30798

ctctgcaggg aatctaagtg tgaagcatgc tattctgcac acgattgtag ctgccaaactg 60
ggtagccact aatcatactt ccaactgttg cacaagttcg agtaaatttc tgtatgctgt 120
cggaaccaca tccaaatatt atctggaaac tatactcttg atcaaactgt caaacattca 180
taatctttag ctatcaaata agccattgcc ttccctactg tattgtgtgc attatgac 238

<210> 30799
<211> 401
<212> DNA
<213> Glycine max

<400> 30799

caagctgggt tactatctt gcaactaaatt gttgttggtg taatcaaattg cagatgcaat 60
gcagtagaag ggggtaaaga caatatatta ctacaattat atgaaattga gtaggtaata 120
ctaagaatag aatattagta gcatgaccga gaataaaata gccgttggtg catataacat 180
aacaattgtc tcacatacag ggaaaaaaaa tactccaacg ccatcattag ccgggttgact 240
tattgctgtc ttttaataaaa tgttgcccat ttcttttaaa tgtgggtgatg atgccgatgc 300
caacagtgtg tattatcaac cactgcaagt ttcataattg taagttagac tgcaaaaaata 360
aaattcagtc caattgttct gaagttatgc ataccatgga c 401

<210> 30800
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30800

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tgatatgctg gtttgagaa gatgcaatct atgcaccata ttaaaccac aactcaacct 120
tccaccaac acatgttgac cctcctccc aaattgaaat caaattcttc gtataatttc 180
tctaactctt ttctcgccga gctaacaaaa acctatatct aanatatttt aagaatgtct 240
gtcactacag gacatacatt agttacttag attacacaaa caattgaata atgagcgctc 300
taccttcata gtggtttata ttatccttcc tttattttac aacttatatg aagatggctt 360
tcttggttct ccataaccac ttcattaagc atttgaacc ataactcttc 410

<210> 30801
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30801

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tgttcgtgag tggaattatt tgcattccat cttgcaatgg aagaatgagc agattttatg 120
tatgtgtttg actgttttgg taaaatgtga tagtctctta tggacaccat tcacctatct 180
gtgctgtaca atatatgagg atctgatgca ccaatttcat atgcaactgc caagtcactc 240
gaactgttgg ctgcccagag gagcttcata gcttgttcca aagctcctac ttctcaacct 300
cctccatgag tctgat 316

<210> 30802
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30802

ctgagaatgg ctagacatga tacatgtcag ggcttggttt ggctctatga taacatgtat 60
gcctccatt atttccatga cacaaatgca taaatgatga tctggaaact ttacgcacaa 120
ctggatcatgc atagcagcct atgcgcgaca ctacagtggt gaataataatt atggatcatgt 180
gatgctcggg ctcaagattc gtttctctta ttttaatcgc cccaatgttt ccaagacatg 240

ttctttttatc acttttgcgca ttcattccgag tccatancgg gcgtccggtg aaacatcaca 300
gcattcaccc ttcaagtgtg tacacgtttt ccataaattg tttatgatca atgaatttgt 360
ttct 364

<210> 30803
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30803

agctntgttt ataagctcga aaagacaaga gtggtgaaag agaagctaaa gacggaagtc 60
actaggggtca ggaagaagta tgatgagctg aaagatatca acctgaccat ggttgaagcg 120
tcagagtggg aaataaaatg ggcctgaaag gaagaatgga gcaggaacaa gttctaaggg 180
gctttgtggg ggcagcagta atgtgaataa gcttagaagg gatgaatcaa ggatggaaag 240
catggtgtta gaggataagt taaaggcttg tcagaggctg aagagaagtt tgacagaaca 300
gctgagcaaa atagaagaga atatgttgat aatcattgat caatataacg agaagggtgaa 360
cctagctgct agtcatggac atatgctgga aggtatc 397

<210> 30804
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30804

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aattccacct ttgtacaatt aaaacatcgt ataaatatat tgtaatgtaa ttattgtgta 120
taattttaaa ttgtgtaaga atttactgcc aacgatttgt cgtatgattt gtgctactaa 180
gatccattgg anaaaataaa aaatagaatg tggaagaagt tttgaatctc ccaaagtaca 240
tctgacatgg atacaaactt gagtagacgt tgctttgcta catattgtac tctttcatta 300
attagaagtt tcatactagc ttccactctc ttcactcttc tccaatgaat gtaagaagaa 360
taaattatat aatggaacat ttgacattgt tgcttccttc ggtatcggcg atatatatag 420
atcgattctg aaaacataag tctgtgtatt atcattagca tatatgatcc ttatgttc 478

<210> 30805
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30805

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 taaagaagtt aattatgaat tgtcttttga gtaattcatg ttaacgggtgc attgttaatc 120
 cgaaaagaga gagtgatagt ttaattgagg aatagtcttt gtatcttaat tcaacccctt 180
 tctttcttaa cgttactgaa gccatttgct aacatcctat tcttgacaac tcgcttctct 240
 aagaagacca actctcctgc cttgataaat gaagcccat gaacgtctat atttttactt 300
 gaaaacacag tcatacaatg tcctttctct ttttgaa 337

<210> 30806
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 30806

ctactgatgc ggcattggcag gcttacttca ctatcttgac tccgatgcga gctatgatca 60
 ctgctcttcc ttcccgcgac gcgtcttcat atgttcgcct gagtgggctt atactctata 120
 ccatactatc cacgatgact ttggctatat caagctggca tgcctgcgat gtcggttgct 180
 agaccatata cgggttcata accgactccc aacataactc cagccatcat tacatgctgg 240
 attggacagg caatgcttcc ccagagaaatg agttcacgga tgaaattgct gacaccttca 300
 gagcactgga tagcgggttc taacgacctc tctggcggct acacttaaag catataggat 360
 gggcaacttc tcaagatgac tccctgcct gagacaagaa cagatggcac ctcaatacaa 420
 attaaacttt cgtggagggt gaggaacaa cctcgttgat ggatcatagg cggccaggag 480

<210> 30807
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30807

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cagggaaactt ttgcctttga tacggcaacc acgttgatag agacatccca aggaaaaggt 120
cgttcttcag ctaagccagg catcaatcca atctacggca ggtaatggcc catgactgcg 180
gcttggcgca taagaacatc aaggcctaca ggggtgtagta ctgatattct acgcaaccac 240
ttccccgttat ggaatccacc tttatgagat gaagcatgtt gtattttacat caatctaagt 300
ctggataata aggcgggacc atctgctttt aaccaccta gaacacaaaag ttgttatagc 360
taggctcgta gagccgaaag ctacttaaac tcaagactca tcc 403

<210> 30808

<211> 500

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30808

cgccgcattg atccatcgtg agcgatgaan acttaaacc tgagaagtgc gaggacaagc 60
tctcaggcna agctcgaatg atctctgcgt attctaagag aagttcacgt tcatagccat 120
cggagtctga taagagtatg atgaactatg ggacgtcatt atggtcaccg ctgaagcctt 180
ggaacgagaa accacaaagg cctcgaatga atatcactac caatgcaaag ttgtgacggg 240
ctctataggg cagctatatt gatctcaacc tccgatgagg tgataggact catcatgggt 300
caaaggcatg aacctgaagg acgaactaat agcttgctc aagtcaaata gagaattgat 360
ctcagataa tacgaaattg aaggattatg tggccatctt catggtgcaa aataactatt 420
ctacacgatt acgactaagt tatagtgatt accccgattt ancaaaagg accaggagag 480
ggtcttattc ttgacctaaag 500

<210> 30809

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30809

tatctntctt tcaattcaca cgacaataac gttntactcg gatgtctgat tgagtcctgt 60
aatatatcga taagctcgaa attgaatgtt gaacctctga gcaaattcaa acgacaataa 120

ctttttactc ggatgtctga ttgagtcctcgc tcatatatcg agacattcga aattgaatgt 180
tgaagctctg agccaattca aatgacaata acttattact cggatgtctg attgagtcctc 240
gtcatatatc gagacgctcg aaattgaatg gtgaacctct gagcgaattc acaccacaaa 300
taacttttac tcggatgtct gattgagtc ccatattata 339

<210> 30810
<211> 546
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30810

cgatgtgaga cgatagancn ccnttcgttt aganccccct agctatatan gagacactac 60
tcagaataact caagccttca acagttcaat tttcgagccg tctcgatata tgtataggcc 120
tctaatttta catnccgagt gacaaagtac tctgtcttnt gaattgcgct caaagcttca 180
acattcaatt tcgacgtgtc tcgatatatatt acttggactc aatctgacat gccagataat 240
agttattgtc acttgaattg gctcagagct tcaacattcg aattctaacg tctcgatata 300
tgaagggact caatcacaca ttcgataaat agttattggc gcttggtatg gtcagaagtt 360
aacattcact ttcgaacgcc tcaatatatt actggactct atcagacttc cgagtagatg 420
gtattgtcgt tgaattggct cacatgttga aattcacttc gacgcgctga tgagttcggg 480
accaacagac tcccacaaca acttttgatc gtacagagta gacttccaat tcattgttag 540
cgttcg 546

<210> 30811
<211> 562
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30811

caccacacac accgacaggg actgcgaagg gaagacaaaa acgacgagaa acgccaagca 60
cacaaaagag aaaatgaacc ttgagacctc gaaanccagg tggaacagc agaaccacac 120
ggaccgctaa agacgacctg caggcaagca agcaaagatt tcagacgccg cacacggagc 180
aggaacagcg ggaaatggac acagaagggc ccgaacagcg tagagagaca gaaagaaaca 240

agcaccctcaa gagcgagaga aggaacaac caaaagagcg ggcgaggagc aaccacacaa 300
 agaaacgcac accgaggaac aaggcaagag agcagaacgc caagacntcc aaagacgaga 360
 aagacaagag gcaacatcaa gaaacgggaa agggaaccgg cgcacacgat gagaacatga 420
 aaggcaacgg gagtcgacac aacggaaagg caaacgggtg aatcgacagc aacacaagcg 480
 ccaacactag aacggaaccc gacgaggagc agcagcagaa ggcaccaagc cgcacgggga 540
 cggcagcgtg cccaagagca cg 562

<210> 30812
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30812

cctgcctgtt taacacgtag tcggcgggtg cacatantcc anccctcacc gaggggatgt 60
 gacctctaaa ccccgtcagt cagttgacgc aacgggcacg accactccac agcagaagat 120
 ttttactgcc acacacatgt caccacgcct cacagtggca tatactctcc tctcgtcgca 180
 gacttgggtct acatcatatg ggtgggtgccg caaatggcag attcctggca actaaacgcc 240
 gtcgatcgac aatgactctg cgactaacct cagcatacta aggacgcgtg taaggcaaag 300
 atctgcgcta gcagacctct catgcatggc acgcccgcg atgtcgggtg catctatcgc 360
 ttctgaataca tcatatacag aggggatcta tgtggttagc tctgagtttg ttctcttagc 420
 gtgatgatac gtggtggcaa cgcgcctcggg tcggatcgga ctcaccacta cagccacaa 480
 ctgtgctcac atagaggcgg catg 504

<210> 30813
 <211> 96
 <212> DNA
 <213> Glycine max
 <400> 30813

ttcttgcttt tccttggcct acataatctt tttcagaata cacgttgcta tcatgtgcta 60
 caattgtgac ccttctgatt aaatgtcaga tgatta 96

<210> 30814

<211> 514
 <212> DNA
 <213> Glycine max

<400> 30814

tcacacgttg ttgacccctt cgaaccttga tacttggtcat tacgcgcctt taaacaccgc 60
 ctactacta tttgtcaaac ctattattcg aggcgaaacag tatctatctt cccgcaaact 120
 atgtagtcca tccccctgcat ggaagtgcac ctaaaatact ataatttggg ttgccgctat 180
 atccaacaat cttcaagggtg ggcttaaggg atagataacc tacatggatt gaaccttgct 240
 tgctacacac gaattaagag aatcatcttc ttttgactgt atggatagcg actcctcgta 300
 ttgctcttct ttccaatata ttctgtcgcc ctcttaacga tttcatattg ctgtgttaac 360
 ataatgcctt acttcttata gggattcaaa tacccaagca ctagtgtatg cgtttgatta 420
 tctttcctct tatacaagaa acaacaacaa aggcctatta attgagttgg aaaggatctt 480
 tcgcatactt tactcctata tggaacatat cgcg 514

<210> 30815
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30815

tctctaggga gatccttttg ttcttcttc caaggccaag ggtaataatt ctaatcttag 60
 gtcaagggtta agggccgatg acctgaggtt ttggctcata agacttgtag agggccggac 120
 atgatgtatg taagggatat gtgttcngta accgttcagg gataacggaa tgcccatatt 180
 atttccatga tacccatgtg gacactcaaa catcangtnt gtagtaatgt gagactaagg 240
 cttangattc atttttccca tttaaataca cctagtgtnt ccagaagatg tgnnttatca 300
 attatgcatt catctgagtc t 321

<210> 30816
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 30816

tgaccttgac cctgaacctg aaacgccata actcgcttga gagatacatt attcccaccc 60

cgttttttga gcagaatcct ggaaactccc gatcgatcca aaaatttagg acagtcgact 120
attgagggga ttaaagttta aaccgcaacc cgttgttcca aaattttaaa ttttaagtcc 180
aggggcctcg tatcctcccc ggctgagaac ccgccagggg taaaaggaca tggtgagcgc 240
caggtttcac cgaggtcgca ttaggggggc cagactagcg cggtgaccgc gggggggccc 300
cttaaatecg ggctccacg 319

<210> 30817
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30817

agctttgcta gaaaagggtg agtattttct aananaatta tcgaaattta taatgggaag 60
agataactta gaggcacttc ttgcccacaa aaagtgcgtt attgaaaagg ctgggttggg 120
atacaataac aataagaaac agatagctga caaaatcttt ttcaacgtta caaaagcttc 180
cagctcacc atcatagtat gctactactg tatgaataag ggacattctt cttttaattg 240
ttgattaagt agtttgaat tccaagtggg aaatacaa at gggttcctat gggaactaat 300
aaggttgcta accaataagg acccgacata atttgngtac atagatctac ctctcta 357

<210> 30818
<211> 297
<212> DNA
<213> Glycine max

<400> 30818

aaccgcccag agacagggca acacaccccc ccaggctgac tgaaccacaa ccaccaacgc 60
caagcaccac gacgaatgcc agaagcggac cggggaaggc agcacggaaa cacggagaga 120
agcaccgcac acggcaccga gagacggacg gaaacacagg gcaggaaaca agacgacgaa 180
caacacaccg accaaggcga acaaggcaaa ggaaccacgg aggggcccgc acacaccgcg 240
cgcacgcgcc cccagccgaa aaaacaccca aaggcagggc aagacacaca agcgaac 297

<210> 30819
<211> 392
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30819

agctntacat tggttatcaa ttgtctaaca taaacttctt cttttactta ggacttggga 60
tataacatgt taaagattgc agcaaagcac aacatgggca ggttgatgac atgattntga 120
aattacaata gaacattatg ccagatattt gatccatgta ccgacccac ctagtgagaa 180
aaggattggg ttgttaatgt tgtatacaaa ttcaacatac ttcaaata atagtagttg 240
tagagttcca agccaaaaga taagggtgcat ttaatgcata gtgggaattg gaattttatc 300
actaaggttt aggtggttta aatgcaaagt gaaagattgc attntactag atgaaactta 360
tttgaatgga tgcattggaa gttgtattgt tc 392

<210> 30820

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30820

tgctaaccce tggaagctcc taatatctcc cacactntnt gagatgggcc attcatggat 60
ggccttgatt ntctcaaggt ccacttgac cccatttcta ccaactacaa accctaagaa 120
aactatatta tctacagaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180
aaagactgaa agaacttgcc tgagatgtcc tgagtgatca tctangctcc tactgtacac 240
tanaatatca tcaaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctageccattc 360
atacaaacca aacttgggtct tgaaagcang tatccactta tcaccatttt tcatcc 416

<210> 30821

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30821

agcttgatgt gtgtattcac catctttcat agtagaatac tgggtaatgt gtctaccaca 60
cgattatcat ctctttcca tcatttgggg gtgccactgg gctgccagat ccctccacct 120

<210> 30824
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30824

taagagtnta accatgcgta gatatcctat ggtaatatct cattttttta ccatttgaat 60
 agtgtaaaaa cactacccaa tcgcctaaca aaacaataat actgtctacc acacacacat 120
 gaaaaattgn gatgttaccg tgtttgtttg acattctttg tcttcctagg agtgtatgta 180
 ataatatctt tgtagcacac atgagaccga tgttgtttgg taagagaaaa ataagattct 240
 agtaaattha gagagtttga taagcactgt gctacttcaa caaatataaa gatatgtgaa 300
 atttggtgaa gggatatctt cctcaaatac ttgtcaatta atataagcat acaaaatana 360
 attaaatata atataaatca taaaatattc tactaattat aagatcaaca ttggataata 420
 agagtaagaa cacattatta tttaaacagt tgaaagataa aagtaatatt attaaagaac 480
 ta 482

<210> 30825
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30825

agcttgtatc taacggtgat tgcaagcgat gcagcataat ctagatctct gacggaagac 60
 aagttgaacc ttaattggtg aagatagatn ggggaaatat ngaatcatga tttatatata 120
 cgtcaacagc acacttattt atattcttcc tttctctgca tctccctcta tcataggagt 180
 gttaatTTTT agacacttaa acaatngaaa cacttaanna taatattggc atgtgttttt 240
 tttttttttt tatctcccac ttcatthaca ttacataaac aatcatatat atttcaacat 300
 ccacttattt tanacatttc atcaataact cttatttntc tctcttatca catcatataa 360
 tctatcatatc atnatnttct tcttcttttt ttactatc tct 403

<210> 30826
 <211> 469

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30826

ggattcaact tgggactcct tccgttntgc ttctgacaca gcctgtctcc gctaccatga 60
caacattcac ctccagaaca ttcttccaaa gaagaatgtg gagctcgccc ccacgatata 120
cgacgaattc tatgggaagc tctagcggag gcaatggcat agacgaatga gaaacagatt 180
gatgtggtgt tggatgaagag ttctactcca acttttatga cccggaggac gactctccga 240
agcagtgtctg agtgcggngg aagaccatca aatttgacac tcagacattg aacgatntct 300
tatggacctc gtaatcattc tggaaggggg agcaactaac tacatattcc cagtacctcc 360
aaacttatcc tgacctccca cactctaac cttaacatag gaccggcccg cctaataatac 420
agactcgtga tgaagatgga catggatgtg ggcagtatga tttcctttg 469

<210> 30827
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30827

agcttgagta tagagacttc tcaagctatt tatcttctct ctccagagaga ctctctcatt 60
ggattgatag gaatgaaggc tcctaccctt atttatacta ctctacctcc acaatgaatg 120
gtggagatta cttgtatcat anggtggaga ttaattctct agaatgttgc acacattcta 180
tgagtcttta cactcttcta ctcttttcca tacccttcca taaggttcca cacatctcta 240
gaatattcta gaggtttcca cattcttcca caagcttcta gagagttcta cactactcta 300
gagttctcta ggacgttcta aaaaattcta tactnttcca gagatgtcta gaattttcta 360
gaacttctcc aattaagaaa ggattccaac aattgtaatg tatc 404

<210> 30828
<211> 291
<212> DNA
<213> Glycine max

<400> 30828

tgagcttagt catgagaggt gtgcgtgtac ctaatctcta gactctcatt gaagatgcct 60

cagagatgct tatcaaggaa ttactctcaa catagcttct caatgagacc gcctaggcta 120
 tgaataaaag catgtgtagc acttgtgtaa ctttgatgaa tgagagtctt gtgatacaca 180
 actcatagct cgacttctct cctttggtct tccttccatt actagctccc ccctctctct 240
 atgtctgact ttttcttttc ctccatatga acatcctctt caagcttctt a 291

<210> 30829
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 30829

tgcttatctc ttggagtata taactcatta tgataagctg aacagtgtga aatctattca 60
 aacaagaatt aatgatactt gcattgacat tataaaggctc atttatactg tcatctgac 120
 acacatcgtc atatatgata actttgttga cttttgcaat aactcatctt tgaaagttat 180
 aatgatgatt tctgatttat caacaatgta aaagctttta cactaactgt acatgcctat 240
 tgagttctta ttaaaaagag cttatagaat attcatcatc tatgagcatt attaagttcc 300
 atgtaagctc tatcaaagtc ctctaaatc cttcttacia attgaagctt cgaacaaaat 360
 ggattgagac taacaataat tatct 385

<210> 30830
 <211> 180
 <212> DNA
 <213> Glycine max

<400> 30830

cctgacttac tgacagacac gcgtaaaaat tcgtttccaa aggcgtatag acgacagccc 60
 ccaaaggcac atcacaatct ataaggagat cgacataccc taccatagat catataacta 120
 tcagctagct ctttccgatc ctcccagggg gaacacatat tacatgccc aaactcaacc 180

<210> 30831
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30831

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gcatggaact ccgataagag ggatgggata aatgggttgg cgggattcaa ccatattcaa 120
tcattgaaga gtagatagcc attatgaacg cgatactgag ggtagctaga aggatcatgt 180
tgaaccttgt cccgtaacgt ctgaatatca aagtcgtgct cgagtgtttg ttggatttcg 240
cgcagaaagt caaactgatg aactgaaagc acgagtagct ggccggcgag agagtngcat 300
ccgcacaaca tttgtggcac ctgccttgta ttgtatgggtg taattaagcc tagtaacttg 360
gaaagatagt agtgctgctc ccgggtctaa atca 394

<210> 30832
<211> 302
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30832

ctcagctgct cgctacgaga caaaccttag aatttgtgat cagatatttc gcgcttagcg 60
cacaaccact tacactcgct cagcgagaca tgctctntag agcacgcctt cgtaagctga 120
gaagcctaag agcctttaat aacactaaga atagagggag ttctttatct tagtatttaa 180
gccttggtgc ttatgaaggg ctgaacactt cattgttgat gacgtctcta ctgagcactc 240
ttaatgtaaa actcctaact atctatttaa atgtacttgc tagtcgttca ttggctctat 300
ct 302

<210> 30833
<211> 386
<212> DNA
<213> Glycine max
<400> 30833

tttcttgtgt atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60
ccatttgctt ccaaagtttc atggtcttgc aagtgaagac ccacacaagc atctgaaaga 120
attccatatt gtttgcctca ccatgaaacc accagatgtc caagaggatc acatatttct 180
gaaggccttt cctcattctt tagagggagt ggcaaaggac tggctatatt accttgctcc 240
aaagtcctac acgagttggg atgacctcaa gagagtattc ttataaaaca ttttccttgc 300
ttccaggacc acgaccatct gaaaagatat tttaggcatt acaaaaactca gtggagagag 360

cctatatgaa tattgtgaga gattta

386

<210> 30834

<211> 297

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30834

tgatactcag ctgcttctcc aaagcacagc cttctggatg attgatctgg aatgtctaag 60

tgggccagat cgctatttgc accccctatt tactaaatgc accccccttc tattattttc 120

tttgaattc tttttccgta acgctacgag actgtgcgaa ttttggttgcg atacttattg 180

tccttgcgca gggttacgaa tccttacgga ttatgtattt actctttttt agctttcgaa 240

gaagttactg aaactcacgg attgtgcaan aacacctctt ttcaatttcc cgcacat 297

<210> 30835

<211> 317

<212> DNA

<213> Glycine max

<400> 30835

tttcttattg ttatataaagt actggatcta ttggtctagt taacttctta ccaatcatat 60

ttggtcggct aagattcttc tagatttaac tctgatccat taaatggtga tttttgtgca 120

caaattagag atgatgttga ttgtttaagg agttctcaa gtaaccaagt taaaatgggt 180

ctctttggat tgcaatctta gaagtaatgt tacattgggt ggaatacagt gcttcaaat 240

ttatagatag ccttcatttt ttagttaatt gagaatgcga catcctcttg gattcatatt 300

ggtgttcctg tatttgc 317

<210> 30836

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30836

gcgcttatcg tcctctctat ctcacgttgc taccctttc ttcttgctca tcattgaagc 60

tccatcaaag ctacaacctt tgcacaccat ttctgctcca aaatcgaga aggaagccat 120

tttcggagtc gagaagagca cctctccatt gtgggacctc acatttcacg tttgggtaga 180
 cttcttctca cataaatttt cgtgggtatt gcgttttggg agatatgatg ggtagttnta 240
 ctaggtttat gcctcatgat agttatttgt gaagaaattt gatgaaagca tgttgaactt 300
 gtcatgtttg gtatgagtca agcttaccca ttctgttgta gggttnttat gatgatgctc 360
 gtatgctgaa atggctgatg gaaaaatgat aaagatgaac ggtagaatta acctangggg 420
 taaaagtgag aatgtagtga tatgagtga aaag 454

<210> 30837
 <211> 246
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30837

tattcatgct atatccaaga tcaaataacc cttgagggaa aaaatggtta ccaattatct 60
 aaatgacaat atgagtatca aagtccacat tctgtgtgcc ttaatttgta tgtctggggt 120
 aataattttt caaggagttt tattcttgta aaactatgtc aattcttact gaagatgctg 180
 aagctctatt attattcaaa gtacaagttc tgctagctaa gctcnaataa catatctaga 240
 gtctca 246

<210> 30838
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30838

agctntattc aactgaaga ggacaaaaga gactttgttg atcaaattga gggtgggtgaa 60
 ttggaaaatt cagttgcgga ggatattcat gagtcaaata aaaggaaaac tcctttcgaa 120
 ggtttgtctt ctccatccta ccaaatttga cctgggtgtt cttagaagtt aaaattagca 180
 atttatattt attntgttat tcaatattct gattggaatt tccaaatgat tttccaatt 240
 acagtattat tgctgatcc tttcttgaat agttgttgca cactagcttc tttgcctatn 300
 agaatttatt gatgtcataa acaacatgta ttctangtat gtttgaataa tcttctccgt 360
 aaac 364

<210> 30839
 <211> 479
 <212> DNA
 <213> Glycine max

<400> 30839

acgcacaccc tgagctgcac cacgtgtggg cgtaaacgcc tccccccccc ccagagcatg 60
 accatcgaaa accccttaag accgcccgcac agagcgcagc gtaacgagca cactccacga 120
 ttagactgct gaccaagcac cacgggagca accaagcatc gacaccccac caacccgaga 180
 caataacgac ctaaaaacgc agggacaaag tcagaaaaaa atggcaaacc cgcggtggaca 240
 gaaggcgcaa cacctggggg gaagaagagg gtaaacacag ccgagcaacc gacggacaaa 300
 cgcgacagag aaccgcgaga acagccgagc gattcgcggg cgagacgaag ggagcaagta 360
 cgcagaggaa accggcgacc aaaggacgaa aacaaggggc gccacacgcg gagctcacta 420
 aagacaaaag gcgagaacga cggggaaaga aaggggacag acagactcac acaccaacg 479

<210> 30840
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30840

naagcttatg atggtgttca atatttatgg gggngattgt acatcaaaaa aagatgagaa 60
 aaatgaaaac attntttttg taatgaaaaa tgaaaagatt aacaccaaaa agaagaaggt 120
 gttggagaca ccgatattaa tagctgcaaa gaacggtgtg acagaaatgg tagagaaaat 180
 cattgactcg ttcccagtag ctgttcatga tatggatgcc aagaaaaaaaa atatagtgtc 240
 attggcagta gagaacagac aaacttactt atataacttc ttgctcaaca agaaaaatct 300
 aaaggaaagt aatatattcg gaaaagtgga taacaaggga aacagtgca 349

<210> 30841
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30841

ctagattcat cacttacccc aagcaatata cactgcaagc tcttgtcatc cagctntggt 60
 cttttctgat caggtacatg gacatgagtt angcacccaa atactttaaa gtaatctact 120
 ntaggtttga ttccactcca catctcttct ggagttttat ctttcactgt caatgtggga 180
 ctctgtnga gaacatgaac tgtccatttt gcagcttctg gccaaaaagc cttaagtact 240
 tgtttgtcac aaagcatgca ccggaccata ttcataatgg ttcgatttta cacttcgcta 300
 cgccgttttg ttgtggagtg taagatgtng tgagttgcct gcttatgcca tgaattntac 360
 aaaatcatta actcatttga ggtgaatcac cccccctatc tgtgcgtaac aacatat 417

<210> 30842
 <211> 184
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30842

tgcaccaata gataacatct ttngatgagg atnagcactt ncagactgtg ganctccatt 60
 atntntcata tgactttaac aaattgttaa gtcataatac atttatgtct taaagatgaa 120
 ttangactcc taattanttt gattagatga aaataaatat aaatggtaaa aagtgtgtct 180
 aata 184

<210> 30843
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30843

cttctacatt caacctacag tcttctcana tgtttatgta catctttcta gttgcattnt 60
 caccttatca gaagagactc tgnaaagtta aaatacaact cataatgctt tcaattgaat 120
 ntgtaacaat caccaggatg gcatgctgat tgcanaggat gagatctttg gtccagtcaa 180
 tccatattan naatcaagta agaaaacaac tagtgttagt taattacttt gcagagaaatg 240
 gtattatact accatacatg tgttgtgctt tgtgcattaa tttttgtgtt gatgactcca 300
 gggaccttgg tgaggtagtt catagagcga acaacacacg ttactggctt gcggcaggaa 360
 gtgtcacaaa gaacatggac actgcaaaca ctttgacgcg ggcaactgaga gttggaacag 420

tttggataaa ctgctttgac aca

443

<210> 30844

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30844

agctngtgat tgttaaatat atatataaaa agaaaaattc cttgaggttt tgcacttgca 60

cgtttgagaa gaaaactcac tcgaccagga gcttgtggaa aatgccc aaa gacaattgtg 120

ataatagggc acatctgatg ttagtcactc atgcagactc cttatgattc cttatgaatc 180

caaagggtggc ctttcttgta caaattcttt cgggatcaac ccatgacatc aagtttttagc 240

aagatcaact gacccatggc atgactctat gatattaaat caggaaagtt tcacttggtc 300

acataccaaa gtgtgacaat ccattgccat ccttcaatgg ggtgcatgat cgatcccaaa 360

gccatatatt ttcttgttgt gcagaaataa tcaaagcttt aaa 403

<210> 30845

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30845

tgagatgagg aagtgttgaa gagtgaaact tcctgctntt attgttgacc acagagtggc 60

acctggagat atgtcgcggg ggtcaggaga ccttgnggac gtcagggtggn gtgctattgc 120

ccanaaccaa gcttgaccaa tccaaccca acccgggcat agtcggtcag tgagaacctg 180

tgatgtacct aagcaggcga gctcctngca gtcaacagat aanagganta caagaccaca 240

aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300

tctctgggta atcgatacca naggtgagta atcgattaca aggcttanaa tngaggacag 360

gaggctaaga tgggtctctgg taatcgatta ccaaggggtg taatcgatta cc 412

<210> 30846

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 30846

agcttctttg agaaatcttc tntgagaagc tagagcttag ctacacacac ncctctaata 60
 actaagctca cctccttgag aaagctcctt gagaagattc ctaaagaagc tagagcttag 120
 gtacacacac cccctataat agctaagctc acccccatgc caaaattcat gaaaatataa 180
 aaaaaaaagc tctattacaa agactactca aaatttcctg aaatacaagg gctaaaccct 240
 atactacttg aatggccaaa atacaaggcc canaagagga aaaaccaatt cttacattta 300
 caaagaagaa tggatccaac cttgacccat gggctaaaaa atctacccta gggcatgag 360
 aaccct 366

<210> 30847
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30847

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 attcgtgctc ttgcgcttag tgcacgaatg gagcgcttag cgcacgcttag tggattttgg 120
 cttagcgcgc ctttctcgct taatggatga actgaagcag tgcgcttaga gagatgaagc 180
 agtgcgctta gcgaacctgt acaactcatc ttcttctgga ttcttctcgc cgcttagccc 240
 aggagtgttg cgcttagcgg atgctcgcta agccaacaga ttggcttagc aagaagggtga 300
 aaacaacctt tttccaaagc tntcctaatt aacctanaat tgagagaaaa tgattattaa 360
 acacaaaana tgaaaatact aagtatttat tacctatact taacataaaa tacttataac 420
 attacaaaat aaccataaat taagagagtn tgatgcaatn tatancaagt ttatacacia 480
 aagttagt 488

<210> 30848
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 30848

agcttcagtt tagtgactat cttcaagtgt acatgaatcc taaataacat ctacttaaaa 60

gtaataaact ctttaaacca gaaaatccca tgacacaacc aagcagccgt ttgtgggaga 120
 tgaggtttgt ctogttgata tggtccttgc ggccatttgc acatgaataa ataaaaccac 180
 agcgctgcga acccttcaca aacggcggca acagagtgat ttgcggtgcc aattttgggg 240
 tgttaggggtg gagctgtgcc ttttggtgtg ggaggggtggc ggtaggggtg gtgttatgaa 300
 ttttcaataa atcttataaa atatcaaag agcaccataa cacattacat tacgttagat 360
 catcaagaga 370

<210> 30849
 <211> 76
 <212> DNA
 <213> Glycine max

<400> 30849

tgaactcctt attcctttga gcataagcgg caagcttcat tcaatgtaaa gaggggcttt 60
 ccactccttg aaccct 76

<210> 30850
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30850

tttctnattt ttctcctcct tgatnctggc catctcttag acttcgtcct ttatctctta 60
 ttccaccctc atgttttctt gttctgcgat tcttgaaaaa tacctcattg ttgatggttc 120
 cncgactttg acgngatca tgatgtctat gccatatgta aggcgggaaag tagtttcatt 180
 ggttggtgtc taaggatgaat aatgataagc ccaaagtatg ctanggagtt cctccttcca 240
 taaacccta gacttgtaa gtcttgtgcg cangataacc ttgtttgcta cctctgcctg 300
 attgttagtc tgggggtgtc aacagaagtc acgaagtgtc tgatcaccta cctcatcaag 360
 aattcttcat aagcttaagc tttgaattga g 391

<210> 30851
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30851

acctatagaa actcaagctt ggtttgaggt acttaccgt tgaagactca ttattgatga 60
agatttactg acgaacgtcg aagaacggtc aaaaaccttc gcgaaatcac ttacggaaac 120
gtttcngatg cgctcggct cgaattctct tcacggaaac aattttacta agcacattcg 180
atagagagag aagtgcctaa ggggctgaac ccctattcta catcacttgt cccctagtc 240
atagaaaatt gtgggagaag cttgccaccc agctctccct ggcgagcagg gttgtttcct 300
ccataagcaa cagccttctg gaggaatct 329

<210> 30852
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30852

ttcttcaatg tttgcaaatt tccatgatgc cagacttttc ttctgtctcg ttcacttttg 60
tgcaataaga gtacaagacc atgtgttccc tatgttcatt tcgtcgctt ttggacactg 120
tctcttctag aagacaacct aatggatntg ctcatctcca agcttgatag catagcctat 180
ctctcatcac caanagtttt ttaattactt gctctagctt cgtagctagg taggaagttn 240
tagttaagat catagcgtac agcttggtgt acactcttat ccctgcacac cagcatata 300
taaatagtta aactgtctta ttttgtgatc attaattctta tgagattctg tacataagtt 360
tcaatatgca tatatccatc actattggaa gaa 393

<210> 30853
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30853

nttagttaga aaatagcata gtatgctnta atctaccatt atttctatat attncagact 60
gttgtataat gttcgaagat aaatttcaga gagccctgag ttaccaaaat ataagtgatt 120
ttttttataa aatagttaac tctattctta ccagtctgtc cccacagtgc taagatagca 180
tttgctgctt gtgacatctt aatttgatcc aaaacatctt gtactgtttc aggaattctt 240

aacttanact aaacactggc taaatctgga tattgttttt gtagtcacat ctacaaacac 300
atg 303

<210> 30854
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30854

tgctntngtt taaaccccaa ttngaaattht cggagtgtcc taggtcgaag gttggaagtt 60
gaggagatta ggcacggttc caatcagaga ttaaataact taccctgtgc ggtacttggt 120
ggagaagagg gataaaagaa acaggccaag aagatgaagg atagcacgga tagggaaaca 180
aatgggattc tatagtggaa tattntatcc acggatatta aactctatta gttcaccttc 240
tgtatgaaca tcttttttaa tagtcctctt cagagttttg acactctata aactctaatt 300
aaattggtta gatttttttaa gtntatcaca tacatactca attagtcaac aagttaaaaa 360
agtagaatat atatatatat atatatatat atatatatat at 402

<210> 30855
<211> 809
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30855

ggctcgacac acagacancg tngagcagca gcccagatatt ttgcanattht gcgngtcggc 60
nctancanta tcanacnnch nnnccccccc cncnncccc cagcaacgag cgncnctatt 120
agtatnagcc catgcgnaag tcanncanga cancnnaann anacnacgag acangnnan 180
gcagaccgac gcgacgcccg nacgacggng aangacgaca cggacacgan gacanacncc 240
acgcgctagt ataagtgagc acagtactgc gcgtcgatca acgacatcng cgagggggagc 300
gagacagacg aaggcggcga cacacatacn catcgcacga gacacagaag agtancgcga 360
cggcatctcg ccagacaaga gcatcacaga cagnggagga caacgcgngc gaagcgacac 420
aagactgcac agatgacaca gacaagagac aacacgccac gacacgacgg agcgacgaac 480
aagataggaa actcgccaca cgcagcggaa caacacacga gagagcggaa tcgtgacgga 540

ggaggcgcgga agaaacacgc ccacgccatc tacgaaaggg acgcgangaa caggcaacga 600
gagacgaacg acacgaaggc aggcgaacga gcaatgcacg accggggcaaa acagaacgaa 660
cgacagaacc gcgcacaaacg gaacatcgcg caacgcgaca atcggcagcg cgacaacaac 720
acgaacaaac acaagcgcaa gcgatggaac aagagagggga gacccgggca gcaggcgga 780
gancaggcca gaccagacaa acctatacg 809

<210> 30856
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30856

ttgcttatat tatctctaaa aataactcta tggatgagat atttagaagt aatgatgatg 60
atgatgtata tataactctg ttattggacc caacaattgt gaagcatgtg caatgacaaa 120
attggcagac catgtgtgga acccaccatt agtaaaacaa attaactaac aagataggtc 180
tatgattaat cctaagaagc tcttttgatt atgcctttat ntgcattgaca tgagaagttg 240
gcaaaagtat attgaacata aaagttggcc gagaagcttg acttatctgt cacaagcatg 300
tcacatttct ttgagtgcag tgcactccct acgcctgctg gtggtggaga aagacctgcc 360
cctgtcgtga tcacaaattc acgaccacca tgctcacaca t 401

<210> 30857
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30857

acaaatcgat gggccatctg gttgctagct tatatngcta ttaccacaag ttggcctctg 60
gttggatcgg ctctatatat tgtgtgcgcg aaaaagatta aggatatcct accaaatgga 120
ctagtcacaa aataatttct tgattgctga tattaatggg gtatttgtct gtgcagatgt 180
atgagaatat acacacatca tttcttttgc cctgcaatcg agggaaatct gcctttctag 240
gcttgtggag aacttaattc tca 263

<210> 30858
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 30858

tcccatggtg catacgaatg tgtgatggat tctgtggaaa gtcacggttt cagaggtgtg 60
 gatgagagtt ttggaaactg cttctcctgt tgaatctgtc actcatttgt aagttttttg 120
 tttttcgcaa ttttaattact ctgccctttg gattttcaaa tttgtggacg tgtgttgga 180
 ctgcggtttg tctctggaag aattgttctc acaatccaac gtcgcgtgaa tgtctgttct 240
 ctcatTTTTat tagtgcattct tacgtgttat gcctgtaatg 280

<210> 30859
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 30859

ttattataac gactaataac taaacttggt atagatatTT acttattttg gatgtgtaac 60
 ggggtggagt actggctgtc atcgtcacaa gggaaatgga caaaatggca aaaaatattt 120
 tataataaag ctgtcattat aagggtttat ataattcgag aaataaattg tctctctctt 180
 taagatcgat ctatgatact atgaaggatg aaaacttcat ctttgtgaaa gacacgagat 240
 attatcgcta aaatacttat tctaaactag tagaagaatg tttataataa aaatgttcgg 300
 taagaatttc actttgataa tatgtcagag aaaatattta ttttaaaatt ctccagatat 360
 ggtctatttt gcgcaagttt cttatcatgg taaaat 396

<210> 30860
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30860

agcttgtgct aatgtgataa ataaaaataa ctatnttcaa aatgaccact tttgaacagt 60
 aatttgtaat tntgcatcaa gttgggtcaat cagcccttcc tttagaacgt gttttgtttt 120
 aacgtgtttg tactttgcga tgaagcagtt gaacgtgact gtaacaaatt gttgtgattc 180

tttntgttta tgtaataaag gataaaaattg tttgattcac accataaacc caacacccac 240
atattctgtt atgtgttgtg tctgctgctg ctctagagg cttcaccctt caccaaactc 300
ttctcttttc tcttcaatca cgcacgcact tctcactcat tttccagttc actttctga 359

<210> 30861
<211> 124
<212> DNA
<213> Glycine max

<400> 30861

tattctaaat agctctcgat agcattatga atttaggatg ctgaatctag ttgactgaaa 60
tataacctat tgagactgat gctttcaata ttttaattgtg attttttatt ataattcata 120
atga 124

<210> 30862
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30862

agctntctat atattcaaat ggtcagagct tttcacacgg aggaccgatt catgcgcgta 60
atatatcgag atgttcgtaa ctgaacaaca gaagctctcg agaaattcaa atggtcataa 120
cttttcactc ggatgtccaa ttcatgcgca tcacatatct agatgtcga aattcatcaa 180
ccgaagctct atagaaatgc anatggatcat aagttttcac tcggatgtca cattcaggcg 240
catcacatat cgagacgctc agaattgaac aatggatgct ctcgagatat tcaaattggtc 300
ataacttttc actcgcatgt gtccaattca ggggcatcac atatcgagac gctcgataga 360
gaacaacgg 369

<210> 30863
<211> 668
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30863

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gagccntgga aaccacacac acaaaccaag ctccgcaacg agcaaaaagc agcgagataa 120
 tcctaggaca tattactagg cagctacact gacgccatcg acgggcgatg gcggcagaca 180
 agtaagcagc gctcttgacg cacaagagag gcgacactag cgaggagata cgcatgtcgc 240
 ctagtgatcg cacgtattga cgatagataa tatatncgcy cgaggcgtcc ccacgtcggc 300
 agcgacggac agggcgcgcac tatcgacgcy cgcgcaacgac gacggaacga tctgcgactt 360
 acgcgtgagt gacgacacta cgagacacaa cgttcacgcy cggcngaata tcgactgcga 420
 cgtntagaga ggcaagatcg acaatatacct ctgccctcga gtgagacgac tgacactcga 480
 ctatctacac acgacgcaga cattacatgc gaataatacgc actacaccgt cacatgtgct 540
 atgagacgca cgagcagcga gatgacagcc acggcgacgc cactaatact acacaancga 600
 cactgctgcy cgcgaacaca acacaagtca cagcaccgtg cgctggcgaa caaggaacgg 660
 cactcgcc 668

<210> 30864
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30864

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 ttactttgga aacaatgggt ttgtcaagtt ttttaaagag gttcagggtta ttggtcatat 120
 gggtttgtgca gccgctgttt attaacatg aatcactgga actattgctt gtgacaaaagc 180
 atgttgcaac aaagagttgc tcatcttctc attcctccgc aaccaccttt gcttctctg 240
 atttggactt gcatattcgc tctacatgct ccatattgct acactntctg cacttgacat 300
 ctggcctcca ccaacattnt ctttcaggat gatttgcctt tttgcaatgc ggac 354

<210> 30865
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30865

aggtgtnttc atccnctgca atagtctga attgtgaaat ttatttgga nactctactt 60

tgaatatgta caaacgcatt ggtgagattg tagatntaag cataactaga catccgaagt 120
gatcttatgg gaatggaatg gactcaattg cataagtaga gaatntacaa tgaattttga 180
tggngatgga tttttcaagt tatttggttn ttaagctgac aagtatgtca acttttgngg 240
cattaatttg tagttggtgt aaaaacacta gaaaaatcaa tgaggtgtct taagacattg 300
agaacatttc ttanattct ttgtccctaa ttctaagttt totatttatg ggattcatcc 360
tacccaaaca accaaatttg aatttatanc aattatattt tctaaaatgt gtttagtaag 420
ggttttgggtt tcgttaagag ttaatgaact g 451

<210> 30866
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30866

accatcacat gtgggactaa ggggcggggc ggcgattgtg cacaacaagg ttttcacatt 60
cacaatgggc gcataaaccc aacaatccct tgggtgccacc ttcaactgag ctcaacgtac 120
tccacgtaag ccatatcctc gtttctctca acaccgggtc cccatcaatc ctctcaagct 180
ttcacaacat ccaagcagaa caacattcaa acagcacaag ctatcacagc ccagcaaaac 240
agagcaaagg gaggaaaact cttgctcaac accaaccaaa atcacagctt tttctcgctt 300
aaaagacccc agaacaattc cttcgatcca aatcggttaac cggttgatcg actcgaaaat 360
tntaatggaa gtctctagta cataagccta catn 394

<210> 30867
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30867

ntgactcgga tatccgattg aggcccaata tatatcatcg ccttttatat atagaaatgt 60
actgaccacg caaattcgga cagccataac gttagactcg gattcccgat tgaagctcat 120
aatatatgga gatggtctta ggataaaaat gaagcccatc gcanatacaa acgaccataa 180
cttttccacc ggatctccga ataagccaag taacctatcg cgatgctcaa aatttatcat 240

ggaagactcg ggtgaattcc gacgggctaa actttttact cggatgtcca attgaggccc 300
 ataatatatc atcgccctcg aatatagaaa tggactgacc acgcanattc ggacagccat 360
 aacgtttgac tcggattcct gattgaagct cataatatat ggagatgctc ttangataaa 420
 aatgaagctc atcgcanata caaacgacca taacttttcc accggatctc cgaat 475

<210> 30868
 <211> 237
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30868

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 gaccactgtc cctcctttct gcggtgcttc ttttcatgtc cgcttgagtg ggcttataac 120
 ctaaaccata tttcccacga tttccttggg tttttatcag gctaattatg ccgccattgt 180
 cttttgctaa acccatcccg gggttcataac cgttcccaa cataactcgg gccatca 237

<210> 30869
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30869

tcaagaaaaa gatggcctca gcanattcct tatttccaga agggaattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttattg 120
 aggcaataga tctaaatc tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataactata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaanac gagtacaata caacttanaa gccaaaaaca 300
 taataacatc tgccctggga atggatgaat atttcagggt ttcaaattgt aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ggataaatgc actaactcat gagtatgaat tatntagaat gaatgcgaat gaaaatattc 480

<210> 30870
 <211> 309
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30870

agcttcatca tttcatttcg agggctctcg tatattacgg gactcaatcg gacatccgag 60
aaaaagtatt tgtcatttgt atttgctcag agcatcaaca ttcaatttcg agcgtgtcga 120
tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aatttgctca 180
gagcttccgt attcaatttc gagcgtctcg aaatattaca tgactcaatc agacatccga 240
gtaaaaaatt attggctcgt gaattttctc anagcttcaa cattcaattt cgaggggtctc 300
gatatatta 309

<210> 30871

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30871

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atcgagacgc tctaaattga atgttgaagc tctgaccaa ttcaaacgac gataactttt 120
tactcggatg tctgattgag tcccgtata catcgagacc ctcgaaattg attgttgaag 180
ctctcagcaa attcaaacga caataacatt ttactcggat gtctgattga gtcccgaat 240
acatcgagac gctcaaaatt gaatgttgaa gctctcagca aattcaaacg acaatagctt 300
ttttactcag atgtctgatt gaggccgta atatatcgag acgctctana ttgaatgttg 360
aagctctgac caaattcaac cgacgataaa tttttactcg gatgtcttat tgagccccga 420
aatacatcga gacgctcgaa attgaat 447

<210> 30872

<211> 354

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30872

agcttactat atttttttat agtttgcgct atctaaaaag actttntcan aagggttggt 60
ttggctttta taataaaca gccgagccga gctgagtctt acatagaccg agtaaaaggc 120

tcttgacaag ctgttcggct cattntcatc cctatttcta atgataataa tgctcataaa 180
 aaaatatatt attaaataat atcaaaatat tcaaataaaa aatttagaat aaaaaatgat 240
 aaaggagaa aacataaacc taccgcaat cagactgtc tcaactcttc gacacctaac 300
 tttattttct attntgctat ttctagatta atcacaatga ataaatatta atta 354

<210> 30873
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30873

ntgtntggag cttctatgga gaatgaagaa gaagaaagct acgtgagaga gggagaaaaa 60
 aggcttctga atttctttct ttggctgag tgaggagaga gaacagtttt ttggttttta 120
 actaaaaggt ttttctcttt ttctattatt ttatttaagc tatgccacat gtctccattt 180
 gagtggagca aaaaggggccc actttctctt ttgattgtga ccataactca gccacaaaaa 240
 gtgagaaaaa acctaaccct tgaaacgcta aaatcttgcc tcggtttgcg tgccatttct 300
 ctggttccag ttctctgctt ttctctgctt ccgttggggc cagttttcga aagtaagcaa 360
 tatatatatc aaaacgatca g 381

<210> 30874
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30874

tgcttcattg cctaacaggc caacttaca caggcaggtc ccaagagact cagcataatg 60
 atgcatangc ccaaagttga gtatggtgaa aagattgtat gacccaagtg aaggtgcaaa 120
 attgcaaaaa aagaatgaaa agctatacca aagcaagccc acaaagaaaa gggaaggaag 180
 tggtagcttg aacnccagtg atgaatcttg ggacatttga gggcaaatgg tttccaagaa 240
 ggaggtaatg atgagaatct tgaaactgac caaatacagg ctaaaggccc aagtggagaa 300
 nggatgaaag ccagtgagg aaggacaaag ccccgagtg gagaaggatg aaggcctana 360
 gacagagaca ttatcaagac 380

<210> 30875
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30875

tctagtcacct cagataagtg tatattncgc agttatggta tgttggttaac aacacatata 60
 ttgcacttag aatttttccaa gatgtctata ttgaagtgtt taatgggttat gtactgtcag 120
 catacaagat tttgcacttg tcaaccaatt aagagtcatg tttgggtgtga ttttttgggt 180
 gggtattttc aaagtcaaca aacttactat agaagatgtc ttgtgcttgg atgatagtgt 240
 taaagcactt tacgataatg tcagagataa tgtcagagca tatacatttg tattctatat 300
 tgaatatcta ctttgetgac tcgaaacata caatctatat actcagtact tcgactagtg 360
 gctgctaata taaacttttg taaacaa 387

<210> 30876
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30876

agcttggatg tgacttanag caaanaagaa ggcttcctgct ttccgtggac aaatggattg 60
 caaaccccgga tggtttcggt ggtaaaattt attaaaaaac ttccattttt gcaggagaag 120
 gtgaatgggtg atgggggggtt tgtacggggtt ttttaatcat tgtgccaacc ttggagatgc 180
 tggtagattg tagaatgtac tgaaatgtgg ctacggacca aaattatcag aacagaacac 240
 aacagtcttt gtttttggtt taatttattc atgtagagaa gtttattatg ggagt 295

<210> 30877
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30877

ctttatatca tgctgttctt attacagtca tagagtcacct ttcatagctt atanttttga 60

tcgttagata tatacgggaat ttggggggtcg atggattaata taatttttgc ctataaaaaa 120
atttgtgtcac actacagctt agccatgttc actaccctaa acaaagtcaa tacttggtta 180
gatcaatgta tgaacgtgta taacgcatac atgtgcatgc atgaccaca agtgcataac 240
tgaagcccac ctttgtcctt cattgccacc aacgaagtca agtcacaaa ctttacttta 300
cttcaaccac aagggtgtaa ttcttcggta tt 332

<210> 30878
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30878

tcgattcatt ctatgtgccc gtagtggtcc acattgtgtt tegtgcattt atattctcgt 60
tttggttact ttgtataccc cctggtgacg tgcttaagcc attntactta agtcatttct 120
cgcttaactt aaaaataaaa taaatttcca ccgaacgttt gaattgtatt atccattaac 180
ttcgggttaa ataaattccg accgttcggt cgtgccgtaa ccacgttgga aatcaaaaag 240
aggtaaaaaa taatacaata atcaaaaaga catcttttag taaaataaag cgganaatca 300
agtggacgtt ttctctttgg gatntctcat tcttaatcga attgattaat aacta 355

<210> 30879
<211> 386
<212> DNA
<213> Glycine max

<400> 30879

agcccggcca ccgcgagctg aacaacagac ccccccccc gagaatgagc tgaaacgcca 60
aaacccccga agagagccac actcagacca gcgttaatcc acaccacgc ccggaaggga 120
aaacacaacg cacaacagaa cgcacaccgc cgaaaaggaa aacaacggga gaaaagcgca 180
cacgaccgga tagaaggaag caggcgaaca gcgaacgacc cccacaaacg gcgacggacg 240
aaacacacgc caaaaacacg ccaaagcagc agcggagggc ggacaaggac ggacgcacag 300
caaaggggac cacacccgac aacaagctcg aaggcgaggca aaaggcgcgc accgcgaaca 360
ccgagcccga aagcagcaac tacacg 386

<210> 30880
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30880

ttgcttaatt atatgtggac taaaccggtc cattggacca tgtgtatddd gcctatccta 60
 gacaacctat ataacttttt ttttatttct gcagcgcatg caaaacgaac tcaactggctc 120
 ggtttttcta ttcaactaaa caccttatat atactttatt ttaattcact ctntttattt 180
 ccatttatca tattcatctt ctcaacaacca aacacagatt gccgtatata aatcatgtaa 240
 ataattttgg aaaaaggatg catgaatcta tgagaatgaa aatgaaaaca tggattcgat 300
 atncacaaat atgatgaaat ggtgggtgca 329

<210> 30881
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30881

cgtcccacta cattccacac gccattccaa tatctgcgaa tttttttent cnnntaccgc 60
 ccaaccagag cgcgttgac cgtgtttgat ccttttctat aactgacctt taaatctcag 120
 cttgcgctag ggcaagtgca tctgatgatg gttgcctatg tatttgaaga cactctctag 180
 acttcaagcc attgacacca ttggctagag aatgggtgatt aaatgggagg tcaagatatc 240
 tagcgaaaga ttacgatcat tgactgagag tggctctgcat gatcagtatt tctctgatgt 300
 atctttgcca ggattatcaa gaactctatt ttctgtgctg tattaatgga acgatatatc 360
 tgtgttactc ctggaattcg aacacctagt ttcttttttt tgattgtgaa ccatacataa 420
 tccaaataag gatgctttgt ttatttgcaa actaagcaaa tatctaaata tattcttttg 480
 acaactgcgc ggtaataaga catcaaaaag attttctgct tactccactg ctgaactcac 540
 tacttttctc tgtttattga tgctc 565

<210> 30882
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 30882

agcttattgt attatgtaac aatgatgtca ggttttgaga aactaaggtg ttaaaagata 60
acaaggaaaa tgatagaaaa caggtaactg aacaacttgt gcgattgtgc gattgttctg 120
acagttgata cattatcatc atggtggatt gtgactntgt gagttgtggg attccttcta 180
tatttaacat ctttgaaaca taaagcagcc actggatgtg gatgttgaat cgtgttatct 240
ctgcatcacg aattatgttg cgtccttggt gtatcggtgc ttttggcatt gaatttcaag 300
agtatgatta taaatgtcca gttcttaatc ttcccggcaa ttaaagcaat gctagcataa 360
gttttttaaa agatata 377

<210> 30883
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30883

ctgaatntac taggttttaa natataaaga taagagggaa aaaatatcaa aaatactcac 60
aatacttgta atctttccaa tgcaaggagg tgcactctaa atactataat ttggtttgcc 120
gctatatcca acaatcttca agttgggctt aagggataga tagccaacat ggattgaacc 180
ttgtctgtag cacaggaatt aagaaaatca tttgcttttg actgtatgga tagtgactcg 240
tgtattgact tcctttccaa aatctttgtc gtcctcttaa ggattntaat ttgctgtttt 300
agttaatggc ttactgctat agggattcaa ttcccaagca ttagnttntg ctnttgtttt 360
tcttttcttc ttataataga aaaaactaan aaaggcaaaa ttaattgagt tgggaatgga 420
tctttngcaa tatttttatc actatatgga atcata 456

<210> 30884
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30884

agctngttct tcttctgngt aactacaacg atcttgggtct tcttcttctt cagcacagtg 60

ataccttgcc accttaccta ggtacaggtt tcacgactct tttgttgttt taactacaac 120
 ggtcttcgta ttgtttgttt gtttggggaa gtcgtgctca ttgcaacaat agttgtttgt 180
 ttgtgttgca aggagttggg ttgtggaact catgctcgct gcaaggaatt ggtgtgtgga 240
 actcgtgggtg attgctanng gctgttgggg tgctgactat gcaaaccgtt cgggggtggtc 300
 actcgtgctg gcaaggtgtc attttgagtg agggtaattc aaatgttntg tgtcctttga 360
 atgcttaat 369

<210> 30885
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30885

tgaenccctg caanacgtga ctcgatgctc agcgacctta aagcacaact ttgctggctc 60
 aactccgagt tcttagatta taaagatatc cttgtaccac tacagcttgg tatcatatca 120
 ggacaataag ccttctgaaa tcgagacaag agagtgatcg ataccgctgc tgacaagtgt 180
 aaactacacc ttgaccgtga atactatacc agaccctatc ctaagctagt tactaagaga 240
 ttatatagag tattgcgcat acacagtgca tgtgagatat tatcactact catacactca 300
 attcaatcga tctatttgtc tattcacgag aactcataaa ttctcttctc tatactagaa 360
 tctcagcgag atctcctcat aatgtgcacc tacaccgaga agcaaacagt gcatcaatta 420
 ctattcatca gctatcagtg ctattttctg gtctctgagt cctaagacta attct 475

<210> 30886
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30886

agcttgtttg gttctccttt gccaatgtca aatctgtaac ctggtggaag ccacagaacc 60
 caatgttttc ttttgtcatt ctacttatgt agtagaatat agtataccag ctccatttac 120
 aaagacttga aaagactaac cattccttcc atctttgagg taaatngacc accacattgt 180
 tgcttcagtt ttgtcaaaat acttctctca tgatcatcat tggcactctt gtcaaaaagg 240

agccttcgag caagcttctt cctacaagca atcacgcaag aacatgtntg actattcttt 300
 tgcaagcatc ttacagtang aaaaaaggta atgatgacac tcaaattagc cacagaaagc 360
 agaattcaat gatagactac ca 382

<210> 30887
 <211> 588
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30887

ggggcaggcg tgtcagacgn cgcgacgagg ataangcgac gtggcncnc ccccccccc 60
 gacgagcaac ttgaccccat ggatagaacc cantgggaan ancacacaca ctcagaanac 120
 ataacgatgc gccgcgggac cagcagacag caaggcagaa ggatagcctc gcggtacttg 180
 acaagccctc tgcgagacga gcaacggcgc tgaccgccat gggcaggagg aatcgccact 240
 gaaacgcgag gccaagaagc tccacggccc cagccgcac actggtgac agtgagcggg 300
 ccgaatcccc tncacgaga ggagctgcgc cgagatccca ggcgacagca cggcggcgcg 360
 acgaagaagg gaaagaacag tcaggcctcc aaggcaaagc caaaccggg taccctgtgc 420
 cggctgaacc cgacaggagc acacaggat gctcgcttga cgcgacacgc cccggagcac 480
 agaccggcgn ccaatagacc cagccgccc caggaggcag acacacaatc gggacacggc 540
 agaagaccag cggtcacaca aaaacggaga cgaagagacc ggcccgcc 588

<210> 30888
 <211> 628
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30888

ctctcagcgc tctcatcgta caantcctt atactactta ctggnnttct tcaaattggt 60
 agatcgata nngtatannn annnncaacg agtgtgcntt ttgatgcctt tgtaantcca 120
 tggcaaatac aaactcggta ctcgtggatt ctctacactc gacctgcacg catgcacagc 180
 atgttccgat tatttgtgta tatcatcaca tgtaggtact attgaggatg tacgggcaaa 240
 cggtacataa tacaatatct cccatcatct atcaatatct acatatacaa ctccatccat 300

ccctctagtt gtccactct tcacactgaa gcacacatta cgtcacatcg tagccactta 360
taccgcgata taactcatac acctgagccc tattctatac ctacataagc tttccaccaa 420
tcattcaagg taatttaatc atctcactca tctcaatatt atctaaaacc aatcaactat 480
agtgaacata gcacaatata ttgaaccata cttactccta aataataatc ttctacaaca 540
tatatgaaac cctcataaac aattacgtat atcatacggg tcatcattct aagaatttat 600
atggatatcc ctaatcatat gccataat 628

<210> 30889
<211> 337
<212> DNA
<213> Glycine max

<400> 30889

agcttggtga atgactggac atgatatatg tcagggtggt ggttcggaca gcagtccagg 60
ggtaaaggga tgtcccacat tatttccatg acacgcgcgc aacaatgatg attcagaaat 120
tctatgcaaa actgggtcaca cattcaccta tgtggacact caagcatcaa gatttggtgg 180
tcacgcgaca ctatggctca ggattcatta tttttcctat ttaagtcaac tcattgtttc 240
caaaatatgc tccttgatca aatcatgcat tcactctgagt ccattttggg cgttctggaa 300
aattatctca acattcacc ctcagggtgcg tacatat 337

<210> 30890
<211> 299
<212> DNA
<213> Glycine max

<400> 30890

atgtggaagt cggcctatgg atcactacat agattacaga gacactaatc acgcataaac 60
cctccatagc atgatgtcct aattcaactg aactcactta ctacaacgaa gcccatatgc 120
tcgattctct caacactcgg ggccgaatcc atcctgcaa gctgtaccaa cctccgcgta 180
ctacaacatt caaacagcac aaaataggca tccaggcata acaaggcaaa ggcggaacac 240
tctgccctaa acaccaacct agatcacagc ttttatgact gaaagacctc agtaacaat 299

<210> 30891
<211> 320
<212> DNA

<213> Glycine max

<400> 30891

tacatatgta ctgacctaga gccaacataa cactataggc atgcatcatt accgttgaca 60
ctgcagccga tgcgattact atatgctaca tgctccatat tgataccaat ctacatggca 120
caccttcaat acgtacactt ggcaaacaca ttcaactctt caacctcatg ctcacgcttc 180
tctttcacat cttcacctaa tggcctacga tgaccttcat ttgcatgtac tgtctgacta 240
gcgtcccgtc ttatcttcga cagcatcatg catatcctct tcatgcgcca cgcacgaaga 300
aaactgtaat tatctatcgc 320

<210> 30892

<211> 97

<212> DNA

<213> Glycine max

<400> 30892

agctgtttga tatattatgc tectgaatcg gacctcctag ttctaagtca tgaccattta 60
actctcctga tagcctccgc agatcaatct tgagcct 97

<210> 30893

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30893

ctatagcaaa ctcaagctnt caagaaattc aaatggctct aacttttaac tcggagggtt 60
gattgatgtt tataatatat cgacacgctc caaattgaac aatggaagct cttgagcaat 120
tcaaattggtc ataaatagtc actcggagggt ccgattcatg cgcataattt atcaagacgc 180
tcgaaattga acaacagaag ctttcaagaa attcaaattg tcataacttt taagtcggat 240
gtccgattca ggcacataat atatcgagac tcacgaaatt gaacaacgga agctctcgag 300
aaattcaaat ggtcaaaact tttaactcgg atgtccgatt caagcacata atatatcgag 360
acgcgcataa ttgaacaacg gaagctctcg agaaattcaa atggtctaac tt 412

<210> 30894

<211> 240

<212> DNA
<213> Glycine max

<400> 30894

accatagtca tggataggaa ccggaagaag acgcccctaa tatctgtcac ctgtatcaga 60
tatcatggtc agaagctttt cgccaaactc agcaatatga ccaatgtata tgcggacata 120
gcaaaatgct cccagatgct caaagagtga gcatctggcg ttgaatattt ttctattcct 180
cttagcacaa ttggaatctc tatgagcctg atactatcac cttatctcat aaaagatcct 240

<210> 30895
<211> 200
<212> DNA
<213> Glycine max

<400> 30895

agcttgactt gagtcatgaa gagaatataa atatgtggcc atgttatgag gtttatataa 60
tcatecttcc aacgatctta tcaactatca atcattcttt ggatcatcct atctttcaat 120
tcttttttaa catccattgt caaacatttt tcaatgaatc tttcaatagt ctttctatgg 180
aaattttcga ttcatttctc 200

<210> 30896
<211> 259
<212> DNA
<213> Glycine max

<400> 30896

accctttatt gctaattcat ctctagaac tcaagtacaa agtctacctg acaatctttc 60
attctacttt acttggcata atacattaca ggacactaaa cccaagtacc ttgtaccaac 120
ccaagctgct tgtacaacct atataccagg ccccttgatc attctaaaac caagatccct 180
tategtactc tacactacac accatgcaag tcaagtaaca aacaactccc caactttgca 240
cactcatcag gatgcatac 259

<210> 30897
<211> 574
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 30897

cacacccact cacgtcagta actnagnaaa atatantaat aatcgaatac tcccaaaact 60
catgtncagg ataattatnt ccacagggct acaggnncnac gttgaaacca tgtagaacc 120
nnctgcaann acgcgacacn anagaanact caagctggct tgccttaaga tgacaaaggg 180
atgttataaa aattctatcc atacacactg agtcctcaag aaaggctgca gacgaccatg 240
atggcttttcg ggtgtcaaag agctcactta gactctggct gaataaaggg agactaaagt 300
agtctcggac ggtgcacatc gagtcttcga caaaagggac agacgaccat ctttgtctct 360
gcgatgaatca cacttgattg cctcaggatg acgaggggga gacctaaaga cccccagtcg 420
ataaacaacg agtccacgaa caacagtgc aaccaccatg tcggtctcta ctcttcgaca 480
aacatgattg cctccggatg aagacgcgga cactaacgta atctcgaacg aacaacatct 540
acacctcaac aaataggcgc acaaaacat gtcg 574

<210> 30898

<211> 379

<212> DNA

<213> Glycine max

<400> 30898

ctgcgcgctt caatcttggt gttaaactgaa taggccacaa cggtcgagac cacacatcta 60
ttcttagctt aattaaactg cagaatcaaa tcataagcac aaccagttct gtataactat 120
caatcacaaac ggccatcaag tgataaccaa ctaataaaca agcgaaagta catagcatga 180
tggtcaacgg attgtggaat tgaaactcaa gaattgaaca accttcgaca taatatcagt 240
gcttattata gaaactgtgg aggtatacga atatgtgtga aagaaaataa cacttaatat 300
taactagatt aatgctgact gaatactatc taatgtcttg acaagtactt cgtgataata 360
cctggaatat ataccttca 379

<210> 30899

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30899

tggggattta ttntaggaaca aaactcagat acagacattc tttttcatag gtatttttgg 60

tgttcttcaa ttagaattgg agttttacct atgtaatata tgttgatctt ttatagaaga 120
 ttttattacg tggattatca agatgaaact ccaattctga tcggagaaca aactaaaaa 180
 cacttaagaa actacaccta agttttgtcc tttattttat agtaactttg ttcataaagt 240
 tactagaatg atcaataaac tacaaatttg tggttgaata ggaactgaga cgtttcccaa 300
 ctctccaagc cgaaatagca gcagctacaa atgaggcttt agagagggtc cggaagaga 360
 gtaagaagac agctatgcgg cttgtggaca tggaagcttc ctatctcact gtgg 414

<210> 30900
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 30900

cagttttcca cttgtactcg tgataaaatt aaagaaacat gttagattaa gtatcccaca 60
 atttaagcaa gaataacttc attttggctt ccaaccttac tggatatctag gcattactat 120
 gtaacacata cgttttctac tatgacatag tgcataagat ctaccaataa ttttcaagta 180
 ctaattaatt aaataattga aagttgaaac tacactatcg atatacattg attagcttca 240
 caacttgcta aactagaac actgaaacat tcttcatttt acacaaaaaa tactaataag 300
 aaataaaaag actgcgtggg gttggaagaa ccaaaacgta gcaaactaca ctataactca 360
 ttgcttaaag catgaacaat cttaacctga ggaaaac 397

<210> 30901
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30901

ntgcggattt ggtcttcgcc agagaattga tcgatgtgtt ttctaacaga ggcaaatttg 60
 atcatcctac taggacgact gagaaaactg gggcaaata agagggtgag aaagaggag 120
 aaacccatgc tgtgactgcc attcctatac ggccaagggt cccaccaaac ccaacaatgt 180
 cactacttag tcaataacaa acctactcct taccaccac ccagttatcc acaaaggcca 240
 tcctaaatc aaccacaaaa cctgtctacc gcacttccaa tgacgaagac cacctttatc 300

acaaaccaaa aaaacacc

318

<210> 30902
<211> 383
<212> DNA
<213> Glycine max

<400> 30902

agcttatgtg attatagtag ctcagctgta tcattgggtt aagaattggg gggcattgaa 60
cttttggctc atagggttaca gaaagaggta cacagagtca ttggtttggg tggaggaact 120
gataacatga tgcttactgg tgaaagcttg ggacatagta ctgatcaatt gtactcccag 180
aagagactca taaagggtct ccttaaggcg cttggttctg caacatatcg cacctgcaaa 240
ctctaccaga tctcaacatt ctcaagacag ttcattacct ataactctaa acttgatttt 300
taaaaatgaa gataaagttg gaggtgacat ttattattca gctgtactga tatgagttaa 360
taattcacaa aatcctacct ttt 383

<210> 30903
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30903

cctactccac caatattatc tttatataa gtgtatttat nctatattac anctctacna 60
caacagaaaa ttgagcatga anctttgaac cagcagaccg ggatcttgga gcaccagcag 120
cagcagcggt ttctcattcc tctgtttacg agcaaaagta gacagcctac tcgttagact 180
aattaaaact aagattccta ctctatccta tgctggacta gaccagctta taagctgaca 240
aagttagacc aattagccta agcatagcct cattcccgtt attggactag atgagaccaa 300
caacattatt ctaacagcat atcttaaacc aaacttaatc cgcaaccctc attaagacta 360
gattcatcct gctaattaaa gttaatgcac agaaatttcc atgctaagta cctagcctgc 420
cacatagggg gacgaccaca gctacaaatc tatcacttaa tgagcatgac acacg 475

<210> 30904
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30904

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ttttggctca gaggttacag aaagaggtac acagagtcac tggtttggtt ggaggaactg 120
ataacatgat gcttactggt gaaagcttgn gacatagtagc tgatcaattg tactcccaga 180
agagactcat aaaggtctcc cttaaggcgc ttggttctgc aacatacgca cctgcaaact 240
ctaccagatc tcaacattct caagacagtt cattacctat aactctaagc ttgattttta 300
agaat 305

<210> 30905
<211> 411
<212> DNA
<213> Glycine max

<400> 30905
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gtagaattat taatttttgt tgttatcctg actctggaga tctgcagttt aaccatatgt 120
tttatggaat tgttcaatta caacatagtt cacttttttag taaatattaa aatgaaagtc 180
tacttgtttt acagagataa atagatgttt tgcattggtt aattttgtta attagtgtga 240
gcttgaagat gtatgctaaa atgactctgt tactagttaa atttggcaaa aaaataaaaa 300
taaaaatcag cattctacat ctacatcggg ttagagacaa aaacgatgta gaaactctac 360
attctacatc ggttggatct cataacgatg tagaaacttc acaattctac a 411

<210> 30906
<211> 93
<212> DNA
<213> Glycine max

<400> 30906
tagcttttta ctctatacta agtaatgagc ggctacttct gagacagata tatatacata 60
tatatacata tatatatata tatctataca tat 93

<210> 30907
<211> 400
<212> DNA

<213> Glycine max

<400> 30907

agcttcatcc tcagatccct cttgttgga c taggcttaat ttagacagcc ctccctaggtt 60
tagactaatt taaactaagt ttcgtcctca gatccctcat gttggactag acacagctta 120
aatagcttac aaaagtttag actaatctag cctaagcttt gtcctcatat ccctcttatt 180
ggactagact tagaccaaac aacattattc taacagcata tttaaaacca aaacttaatc 240
cgcagatccc tcatttaaga ctaagtttca atcctgcttc attcaagttc taaggcaaca 300
gtacatttcc caatgctaaa gtcacctaac catgcacaca aatgggtgat cagacaaaaa 360
gcatacagaa ttttaagcact aagagaagca ttgaacacaa 400

<210> 30908

<211> 372

<212> DNA

<213> Glycine max

<400> 30908

tactgcgaca tgaaagagtg gtcagcgctt tcagatttct cctagcccag caggctgtca 60
tgaggactct ccacatgcc acacacgata atctttcata accttcttcc gacaatgac 120
tctcatgcag ctcatactct taagactgtc actctatatg acatgctcca tattatatgc 180
agcatgcagg tcatatcacc accatatact atatggactg ctacttctgt cgacaagac 240
agtctcttta gaatctataa ctgatccaga cccaaccgac tggagtgata cctatgtaag 300
agcattcctt caaacgtttc tttgaatctt caatacgag ctacatatc tcaaacacta 360
gcaccgtaca tg 372

<210> 30909

<211> 402

<212> DNA

<213> Glycine max

<400> 30909

agcttcttat ccaaggctca tcttggtggt gaagctcctt ctccatggc ttattcctta 60
atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catgggtggaa 120
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agccccacaa 180

gcaagcttcc atcatagaag ggtcagaatg gtcgaggcag atcaaagtca agagggaaaag 240
gtcaaagaaa atttcaaagt ggcattactt gttggaattg tgacaagaga ggtcacttca 300
gcaatcagtg taagccacca aagaagatca agtcgcacaa aaacaagaag cgcgatgatg 360
atgaatccac aaatgcagca actgatgaac ttgatgatgc at 402

<210> 30910
<211> 416
<212> DNA
<213> Glycine max

<400> 30910

gcgcgggtct gggagacgaa gggcaagtgg aacgttatat acgattatga tgttccgagt 60
acattggatt tggtagcacc atgccctcct gatttccagg tgggaaattg gcgagaggag 120
gaacgccctg acattgactc agcgagcata atgtcaacct ttacggatct aaaagctcta 180
tagctgggcc taggcttttag aagttttcct ttggttaagg ctttgtgact ttcgtttttg 240
aatttataat acaaggacct tgtttcatct gttcctacgt atctacccat tctcattcat 300
ttgcatgatg acttcttttt ctaaaacggc agatccgatg acgagtcctt cgaaggtatt 360
aatacctggg acccgccctat caacttcgag caagagatga atcacaccga atatga 416

<210> 30911
<211> 349
<212> DNA
<213> Glycine max

<400> 30911

agcttgtaat atgtctagcc aactatatgt tcagttactg gtggcctgtg gaagatgatt 60
gggttttttta ctgcattgta taatgaatga tgcaggccgt acccgaatca aataatcatt 120
aaaaatacag tatttaggaa gtgacccatg gtcgtctccc aacgagcaat ggtcaaccaa 180
atgttcataa cagatagtaa taaaacagta acgaattggg gggggggggg tgtttgttta 240
tagaaactac acaatcataa aattctaatt gtactatatc agagataaat catgtagtat 300
caccttgatt cacaagctag gttcttatcc tatgatacca tgatttatt 349

<210> 30912
<211> 428
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30912

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ctcaagcttg tggagcttag agaccttgta naaagtcatg tgggaatatg gtttattcta 60
tacttgcggtg atctgaagag gttgtctgag ttctgggtcaa gttactgtga gcaaagaaca 120
tactactact gttctgtgggt gcatatagtg atggagctta taaaattgat tagtggatat 180
ggggagaatg gtagattgtg gcttatgggg attgcaactt ttggaacata catgaatgggt 240
caagcatgta acccctccct tgagactatt tgggatcttc acctctttac agttccagtg 300
ttactatcat ccttgagact agcttaactt ttgataggag ataattatcc ttctatatac 360
ttcttattta tgcttgagtg tacaatattg atttcttagt gatattaata cgctgggtgtt 420
tttgtctc 428
```

<210> 30913

<211> 133

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30913

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tctacgctta ccgcaggagg agacatacaa cgaggagaa actccacgtt gtacgtcgcg 60
cgagctcgt caacttgag gaactatacc gtgttacatg cgctgctcat gaagacgatg 120
tataaaccca ctn 133
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<210> 30914

<211> 319

<212> DNA

<213> Glycine max

<400> 30914

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gtaatgaacg atatacctgt gagggacagg gccgatacgt taaccactat gaaagtggaa 60
acaattgact tcccatgcga tctatcaagg acacgcgttg taataagacc accgacgagt 120
acctttggta gagaatccca caccaaccta taaaagacga atccccatgg tgaaagtcaa 180
tgaagaatta ttgctcacag tttttgggtg accacacgag atcggtacta gaggctcgct 240
ggctagactg ttctttcttg cgaatgtgga ggagcatttg cggatgtgat taccataacg 300
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ctaacttgaa tatccccga

319

<210> 30915
<211> 413
<212> DNA
<213> Glycine max

<400> 30915

tcatgatgaa tcaagatcgg ttcagagatg ttctgatgat atcaaagatg aagaccaagg 60
tgatgacgaa aagctcagcg ctcaatcata gaatgagttc aagatgggtca agatagaatc 120
acgatcactt caagactcac gaggaaagtg gaagaactct tcgagattca agaggaaagg 180
tgagtcctag aatcaagaat cagcattcaa ggatcaagct ttcgagaatc aggatcaaga 240
ttcaagactt aagactcatg aatcatgaga aggcttaatc aatatcagta tgaaaagggtt 300
tcttcaaaaa ctaagtagca catggatggtt tctccgaaca tgtttaccac agagtgttta 360
ctctctggtg actgatcacc agactgctgg aatcgattac cagtagcaga atg 413

<210> 30916
<211> 387
<212> DNA
<213> Glycine max

<400> 30916

agcttctatc caaatggact taccttgaat taattcctta gatagccctt ttgagccttg 60
tttctttttc cttgtttaga agctcactac aatccttatg tgaaaaacca tgatattacc 120
atataccttaa ggaatttttg agctttggaa ttgttttggg aataacagtg ggggggtttt 180
gtttcattga acaacttgta ttgttggcta tgcttcatga tgtatgttgg gccatacttg 240
atgtacattg tatatgggat aaatgatgga catgctgaat gaaatgttgt ttctcaaagg 300
ctatacagta aaaaaaaaaa taaaattcga aaaaaaaaaa cgaataatag aaagagatca 360
gcaataaagt tgagtgaata agatctt 387

<210> 30917
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30917

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catcttcagt gatccattta gggaaacact cttgacatcc atttgggtcta actntaaatc 120
cataacataa gcataagtag taatcttacc acttctagtc tagctatcgg tgcataagct 180
taaccaaaga ctatactggt ttgttgggtta tagctcttga ctactatcct tgccttattc 240
ctagtgatca aaccatgttc attcaattta tttttaaaca ctcatttagt gtaaattgatg 300
ttcatgtttt taaaataagg tattaattcc catatatcat ttctttttaa ttggttcaac 360
tcctcatgca tggacatcat ccagaactta catttgagtg cctcttctat agacaatgg 419

<210> 30918
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30918

agcttgagtg cttntgctgc aggacaagct gcagccttta agatgtttga aacaattaaa 60
aggaagccag aaattgatgc ttatgacact actggtcggc agcttgatga catccgtgga 120
gatatagaac ttagggaggt ttgcttttagt tatectacta gacctgatga actgatattc 180
aatggattnt ctctttcaat accaagcggc actacaacag ctttggtagg agaaagtggg 240
agtgggaaat ccacagtgtg tggtttgata gagagatttt atgatccaca ggcaggtgaa 300
gttctcattg acagtatcaa cctcaaagaa ttcaaactga aatggatcag acagaanata 360
ggcctagtta gccaggaacc agttctcttt a . 391

<210> 30919
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30919

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tactcaaaca ttggttacct cttttagttt tagctcattg ggggcaaata ttaagccact 120
cattaagatt atttttattg acaacatgcc tgtgtgtaaa atgatcaatt aggatttgac 180
agtgtcaaac aatggttntg gatttgtatt cagctcaatc tatgcaagaa aaacaaaaaa 240

ggggatgagc tctgatacat gcagaacata attaattcttg tcacctgctg gaaactggct 300
 aaatccctgt ttatatattgg ctgttgaatt tcatggatat gctgcttgaa gatttgatta 360
 gattataatt tatacatatg gtatgacttg tga 393

<210> 30920
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 30920

agcttttaag tgcggggttcg ggagacaaag gtcaagcggt cgcgatatgc gaagatgata 60
 ttccgagtac tttggatttg gtacgaccat gctctcctga tttccagctg ggaaattggc 120
 gagtggagga acgccccggc atttacgcaa caagcataat gtaaaccctt acggttttta 180
 aaagctctat agttgggcct aggctttaga gttttcattt tgttaaggct ttgtgtcttt 240
 tgtttttgaa ttataatac aaggatcttt cttcatctgt tcttgggtctc taccattctc 300
 cattcatttg catgtttact tctttttcta aaacggcaga ttcgatgaag agtccccga 360
 atgtactaat acct 374

<210> 30921
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 30921

tcaccggatg atgcagatcg aacatttctt aatctatatc atccaattgg tattcagcga 60
 ttgaatagaa taaacaatgg ccggtgtcgg tcgttatatg gccccgactg atatctttca 120
 gccgacattg cgcaatttct tttaaaaacg cttgccgata atgttttttt tttttttacg 180
 gtagaggaag tttttggttt tgggtgttgc taaaaattt acaacgtaag tcggctaggt 240
 ttttccgtgc gagctcaacc gaggggtcgc tcccacagac actggcatgt tgttcttctc 300
 atttatgagg acaagataac gttggcccat cccggcaaaa acaataaaaa aacattattc 360
 accgaaattg atcgaaaaaa atgatagctg acgtcggaat gg 402

<210> 30922
 <211> 384

<212> DNA
<213> Glycine max

<400> 30922

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agcttattct tgtctgaggc atcttccaag tcaatatctt tttcttcctt gagttcatca 60
tatatccaaa acggaaagta atcattgctt gaaagttgat ctggaagagg atctgagttc 120
ctccttctac ttgccatttc catcaaaagc tttccaaaac tataaacgtc ggccttatat 180
gatactccac caatatTTTT gtagtataat tctggagcta tgtagcccaa agttccaatt 240
gcttcaggta aaacaagaga cctatctttc acaggatgta gctttgcaag tccaaaatct 300
gaaacctttg ggatgaagct ctcatctaga agaatatgtt gtggcttgat atcaaaatgt 360
agaatttgca catcacaacc ttca 384
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<210> 30923
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30923

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tcccgatatcc gtacttgga g gatctgatt actgcctttc taangcaata tcagtataac 60
tccgatatgg ctcccgatcg cactcagctg cagaatatgt tcaagaaaga gggtgaaacc 120
tttaaagaat acgcacaacg gtggagagac ctggccgcac aagtggctcc tcccatgggt 180
gagagagaga tgatcaccat gatggttagac actctgccag tgttctacta tgagaagcta 240
gtagggttaca tgccgtccag cttcgccgac ctagtgttcg ccgggggaaag aatcgaggta 300
ggattgaaaa gaggaaagtt cgattatg 328
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<210> 30924
<211> 379
<212> DNA
<213> Glycine max

<400> 30924

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agcttgagct atcagaagac ttgcttattc atttagtggt gatttctcta ccttcacagt 60
ttagtcagtt taagatctct tataactggt agaaggagaa atggtctctt aatgagctca 120
tttcataaccg tgtgcaagaa aaggaaaggc tgaagcaaga aaggactgaa agtgctcatg 180
```

ttgtgagtac ctctaaagac aaaggcaaaa gaaaaaggac tgaggagccc aagaatgaag 240
 ttgttaaggg tccaagacaa aagaaacaaa atcaggggtga caactttttc tcttacagta 300
 agcgtggaca tgtagagaag aaatgtaaca aatatcatgc ttggcgtgca aagaagggtg 360
 tgtttcttac tctagtcta 379

<210> 30925
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30925

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 cttgtccata atcattccgg caacggagga aatcagaact tgtgagaggt tattaatgac 120
 tntataccag aaccatctga aacaaattaa gaagatcgaa caaaataaaa gtgaattaat 180
 attgcacatc tatactaaat caaatgattt gaacaaaggc ttaactaact aattatgagt 240
 ataccttgta gctgcatott ctggaagatt ttagaatcga tcacagatat gattggtggt 300
 tacagcgtga atggaagaag actgaaaatg cctatgatgg agtagctatc caatacttga 360
 tcattctatt ggttgtatca acttctcggt ggtatataca ggaatggtct tggatc 416

<210> 30926
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 30926

agcttgaaga ggatgcttta atggaggaaa agaaagaggg agagaagtgg aactttgaag 60
 tgtatctcat aagactttca ttcattcaaag ttacaacaag tgttacacat gcttctattt 120
 atagactagg tagcttcctt gagaagcttt cttaagaaaa cttccttgag aagcttcggt 180
 gagatgctag agcttatcta cacacaccca tctaataact aagctcacct ccttgagaag 240
 ctagagctta gctacacaca cccctctaata aactaagctc acctccttaa gaagagaagc 300
 tagagcttag ctacacaccc ctataatagc taagctcacc cccatgacaa aatacatgag 360
 aatacaaaaa aaaaatccta ctacaaagac tactcaaat gc 402

<210> 30927
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 30927

tacggaccta tgaaactcag cttttatcca ggctcatctt ggtggtgaag ctccttcttt 60
 ctggcttatt tcctagtggg tgacgcctcc tctcacctct tctcctttgt cttctgctgc 120
 atctccatgg tggaaaataa acattaaagg acctcattga agctcaaaga tccagcctcc 180
 atagaatccc cacaagcaag cttccaccac aagtagtata aaacggtaag aaccgagtat 240
 cgaactctcg gggaacttgt gttatctggc aagctatttc gataaataag cgtctggtat 300
 ggaaatataa ctgtgggttat gaacaggtat ttaaactatc taggcaaaaa gaaagaaaat 360
 cacgtaagag aaatactatg taaaaacaag tagagaaagc gttgggtc 407

<210> 30928
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30928

agctntgcgg atttggctctt cgccggcgaa atgatcgaag tgggtctaaa aagaggcaaa 60
 tctgatcatc ttgctttgat aaatgcaaaa aaagactggg gcaaatgaag aggggtgagga 120
 tgaaggagaa cctcgtgttg tgactgccat tcctatacaa ccaagtttcc caccaaccca 180
 acaatgtcat tactcagcca ataacaaacc ttctccttac ccaccgcca gttatccaca 240
 aaggccatcc ctaaaattaa ccacaaagcc tacctaccgc acatccaatg acaaacacca 300
 cctttagcat aaaccaaaac accaaccagc aatatgaattt ttagcgaga aagcctgtag 360
 aattcacccc aattccagtg tcctatgttg acttgctccc ata 403

<210> 30929
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30929

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atattttatctt ctaatttgga aaaatttagt tattcttggt caatttgaaa taataaagtt 120
 agtctctctc gtgattcaaa tgttgtaagt tatgaattct tttatggata ttgagtgttc 180
 ctattggaaa caattttaag tggtaaaaaa cttaaaatta aatgagaatt tcatcacttt 240
 ataacataag tgctaagtca tatctcttaa tagagaattt ggatgcttgt gttataagaa 300
 attttgatc ctttatattg gttggacctt atagtctaca ttgagtatat aaaggcacia 360
 taaacaaaac aaaaaaatgg aattcatgtg ctgaaagaaa taaggatgtc ctggaactaa 420
 tacata 426

<210> 30930
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30930

agctttgttg gattttctgcc atttggctct attttgatc ctatccatat aaaataataa 60
 atattttagt caaaaaaata tatacaagt ctttacaaga tcgttagtgc aacatttgag 120
 ttccatgtcc ttattttctaa aagttggatg aagaattttc cttgagaaat cgaccacccc 180
 atgtccttat cacctttggg aaataaattt ccttttgcaa agttcttatt tctaaacttt 240
 attctacatt ccatgtgatg aagaatttga cagtctgttt cttcggatgg ggaccatttc 300
 acaaaactct aagctttcca gaagaatata gaaaaccacc gcataatttg ttttcataat 360
 tatacgacct tatgatatta gtcaatgact atntaatat 399

<210> 30931
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30931

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 agcctaaga atgatttcaa gattaagttc aagatcaaga ttaatttcaa gattcatcaa 120
 gaagattcaa gattcaagaa taatcaagat caagattcaa gactcaaaga ttcaagaatc 180
 aagagaagac ttaatcaaga taagtattaa aaagtttttc aaaacattga gtagcacaag 240

aagatttcac aaaattatta ccaaagagtt ttactctctg gtaattgatt acaagaatgt 300
 agtaatcgat taccaatggt nttacaacgt taagatnttc aaaattcaga atgaagactc 360
 acatctgttg atgtgtaatc gattacacct 390

<210> 30932
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 30932

agcttctctt ggaccttgaa caagcaatca actcctcttt cagaaccctg ctatgtgctc 60
 gcgactgggc cctttcttcc cttcgcaact tgagttcatt attgctaccc catagagctc 120
 cgcgaaatgt gttccggcca tactcttctt tgcgagccct cttgggtctct tgttcaaggg 180
 ctcttgcggt aattgcattc tcttcccgtc acccggcaca ctcttccga acgtgtgtag 240
 cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctt ttgagagctt 300
 ggacttcttc gtcctcttcc ggtgcttcaa aattctcttc gctgacgact cttaacttgg 360
 cgagccaatc taaacctcgc atgc 384

<210> 30933
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30933

gentnnanca aatcatataa gataaatgca ttcattgcaat ctgtagatat atcctcccaa 60
 acgtcaaatt ctccgcctat atattcaacc tttccatcac tggcacgtgg agtgaatctt 120
 totccatggt gcaatactaa agttatattg tcattcattc tacacaatta gaaaccgcaa 180
 acatgggtcag atattangaa ataaaanaac ctacctcaaa aagcggaag acattgacat 240
 tgtcaaaaac cggaagaca caatcaataa ccaaaaacat tgtcatctat aaaaacagag 300
 catcataaac gaacatatta accgatcata aacctcccta 340

<210> 30934
 <211> 396
 <212> DNA

<213> Glycine max

<400> 30934

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ggatggcctt gatttttctca ggttccactt ggaacccatt tctaccaact acaaaaccta 120
agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt 180
tcctaaggat tgaaagaact tgcctgagat gtcctaagtg atcatctagg ctctactgt 240
aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
aatgcataag cctcataaag gtgcttggtg cattagtgag cccaaaaggc atcactagcc 360
attcatacaa accaaacttg gtcttgaaag cgtttt 396

<210> 30935

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30935

ctggggaata atatttaaca actggagtat tgaacttaac ccacaacaag tttctagcta 60
tatgaactaa tatatgtgtc acttctaagt tttctatggc tgggtactttt aggtaaagac 120
tggaagacc agcttggaagc aaatatcaag agtttattgg aatcaggtaa gctaaaagct 180
aatagtcttg gccattctt tttcttatcc atgcaccttt atgtacttga gaatccctaa 240
acatacatgn taacaataat tttccccata tgtaaaataa cttgacaccc tcgaacttct 300
canagtcatt ccaatttcta ttcgattcgc cattgttact ggtattntct acagattatg 360
ctctgtcag tgttttgtac catcaattgt 390

<210> 30936

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30936

tcgcgcctca cacngccata taanactttc gttgtaatan ggtcaagtat acatgtactt 60
gttttaccac tacacaccna nccccacgaa gcacatttga agcccttgag nccntngtga 120

aaaccagtca agaacacgag gaacctcgan agacgacctg caagcatagc agattgtata 180
 ggaagttata caggctgaca agagagaggg acacgaacgg aactttgaat agcatctcag 240
 agacattctt cacaaagtac aacaagcgct acacacgctt ctagttataa acaaggaaac 300
 acccctgaca atcctactga agaaaactct ctagagaagc attatttgaa tgccagagct 360
 ctacgacaca cacaccatct aaaactaagc tcacctccat gagaagctag agccaatcta 420
 cacacacccc gttaaataac taagactcac cttccttaag agagagcaag cgtagagcat 480
 taactaccac accctctatc atcagctaca gtcaccctc catgacagaa aaccatgata 540
 agtcactaaa aaaatcctac tactaagaac actcacaagc tccg 584

<210> 30937
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 30937

catcactcga cccggatcct tagagtcacc gcggtcagc tttcttaacg gctgaatctc 60
 tccttaggct tatgttacta tttttatggt tcatttcttc ctgagggttg ctgagccata 120
 gatctgaatg aagagacact agtgattcat gtatcctttg tctccttttc cctttctcca 180
 agacctacag cgtgtcaaga aggatataaa agagaaaata ttggcttctt ttggctatat 240
 gtattcctta gttagttggt cctaccttat catgtgattc tagatcactg tgaaatgaat 300
 agaaggacac ctattgaatc atattttgaa tactagatca attctgctct gtctgtatat 360
 attgtggcat acgaaattat ctattgtgga atttccacaa agccttggtg ggatc 415

<210> 30938
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30938

acggacctat aaaactaagc ttagaccgag cactcaaatc taggatctaa aacccttcta 60
 tntagggatg ttcaagggtg agaaggaaaa tgaaaatggg gtaaatnngg agcaaactct 120
 cacctcaaaa aagtctatat catcaatcta aacttgctca aactggtttt accaagaana 180
 ctctaccgaa tcaaaagttg actcctcaac acccatattt taccctagaa atggctcttg 240

cctttactttt ggtcatttgt ttttctctct tgcaactgcc aagctttctc ataagtccta 300
tatgacattt caaactatga tttacttact ataacctgta tttaccactg aatcccattg 360
tatgcctcca actctcagag cctcactctg tttctactca taacactaca ttctca 416

<210> 30939
<211> 250
<212> DNA
<213> Glycine max

<400> 30939

tgcagcttgt atgattatgg cgtacccatc acatgtggca ctaggtggcg gtcaggcgat 60
ggtgcacaac aagttgtcca cattcacaaa tcgcgcataa aaccacccat cccctggtgc 120
ccacctccaa ctgagcttac gtacttccac gtagcccata tccttgtttc tctcaacacc 180
gggtgccccat caatcctccc aagcttccca acattcaggc tattcaacat tcccatcatc 240
acaaaacttac 250

<210> 30940
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30940

ggggaatttg aaaccctgtt agagaccgta gctagcncag agccacaaga tcatactcgg 60
gcttctccga tcggcatgga aactgacagt ttcatgacaa tatctaacaa gctcgcccaa 120
agaagggggt tacgattgtt ggcacgcacc atatgatatt gaacacacac tccctccttc 180
ccagctatct ctcttataaa ctctctagct tgtacactaa tactccgatc tctagtctga 240
acctaaccat gatcatttgg ttgacaacct ccacaacttt tacgtggtca tagacatact 300
tctctttgag catcaaatac cactgctctt ttctgatagc cttcaccaat cacatataat 360
tatttttatc agcacctctc ttattgcacc atacttgccg gatctacact atgctgttct 420
ccacctctga aacatatact cctcgaatcg cagatagcat gctaccacga ttctaacaga 480
accccg 486

<210> 30941

<211> 270
 <212> DNA
 <213> Glycine max

<400> 30941

taatatcccc cacacttttt ggagtgggcc attcttggat ggcttcgatt atctcagggt 60
 ccacttgga cccattttcta ccatctacaa aacctaagaa tactatatta tctacacaaa 120
 aggtacactc ctctatatct gcatagaagg tgttcttcct aaggattgaa agaacttgcc 180
 tgagatgtcc taagtgatca tctaagctcc tactgtacac taaaatatca tcaaaataaa 240
 caactacaaa tctacctatg aaatccctta 270

<210> 30942
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 30942

agcttatcat tcaagaatth catagttttc ttgtaattct cccattcaat ccatagatca 60
 tgtttacttg catccatggt ttcataatca tgatgagttt gtaacactct ctccatagat 120
 catatctttc ttcatgtagg tgatcatgaa gttctttgag gtgtttcaac tcaacttggt 180
 agtcttctag ttggttttcc gacttctgaa gatcttccaa aaagtcagac ttttctttac 240
 aaattttctt attttcaaga tggagctttg tagtctttag tttacgatct tcaaagacaa 300
 catgctccta agtgaaaaat tctaaaaaac tattattcct ttgaagttgc ttatgatctt 360
 ctgagaggag tttgacatat t 381

<210> 30943
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 30943

tgcacaagat ctaaagaaaa acagataaca caactcttca tgcaaccgag gatctaagac 60
 agatttaacg tggttcagca atgtgcctac atccacgaga aatggcagct catcatcatc 120
 acattgatcg tgaaaaatta caagttcaat acaagcagca gctagcttga tctctctogg 180
 tttctctttt gcaaaacctc tctcaatctc atagctgtct ttttttttta aactctctct 240

ctggttttct gcaaaaaaac tctctgaatt acatgatcaa gagtatgtat atactctagc 300
 tggtagctct aggcacaaag gctatacttt ggtgccaaga ccaattcagt tatgacaact 360
 gaattca 367

<210> 30944
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 30944

agcttcttag tttcagatga tgcagatggg tttgtagcta cctcatgcac tcctctaattg 60
 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
 tttctggctt cagtaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
 tgatgggtggg ggcaactggc acatagtttc ttaaactctt cccagtactc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttcctga tggctgtggt cctggaagca 360
 gggaaaattt tttctaagaa tactctctt 389

<210> 30945
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30945

ggaagctcaa ggaagagctn gaagaagttt tggctattac ttgcccact cctttgagtg 60
 acatttgtat tggttgttat ctgattgat gcatcttagt acatttgata tctgctttgc 120
 atcctgcac atcatgggta gcatcgagaa aagtttctaa gttaagaaaa tttcttcaga 180
 ggtaaaactc tctatttaata cgatacagag gtgtcggaat cgattcaaca agctgggtga 240
 agcttaaaga gttaagtctc atatcggttt aatccgatac aatagtactt taattgattt 300
 cactgctgtt agaccatgac tgatctttnt caggagtctc aactttaatc aattaccagt 360
 ggattaatcg attacttctc tctcgttcaa gtgttcaaag gtgaactata acactttaat 420
 cgattatat 429

<210> 30946
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30946

 agcttgtagt gaggtttgac tacaaaaatt cattggtttt tctaggattc aaaggtttag 60
 attctaagag agcacaagtc ctagactaat cccaatgata ttttcttggt ttgtacaaat 120
 agccttctca ctattgcctt ttcttaagtt gcttttgacc ttattgtaac aacataactt 180
 attttctctc tttttttaca ttcaacttat ttgatgtgtg tcttgatgct taactttttt 240
 cttttcattc ttttcaactt ttctcccca aatttagagt aaatatgcct tgaacaatat 300
 gctctcctag aatctaaaca aggtattagg agataatcat gtaaagttca gggttcaatt 360
 catgacaaat caataagctn tatacaacgc agcaaaagat 400

<210> 30947
 <211> 90
 <212> DNA
 <213> Glycine max

 <400> 30947

 agtacgtgaa ggaactcttg aaaaatttta gatggacgat gcaaatatat gaaactctat 60
 acatccacca ctatattaga ctagatatga 90

<210> 30948
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 30948

 agcttggtgct gtatgggctg atcaatgttt tgacaaagta atagggatag aggttttaga 60
 tgaattgata atttgggtgtg taattgaagg ctcttgagtt ctgtaactcc tgttgatgaga 120
 ggtaatggga gcacaggata tatgtatata aaggcaagtt gtgtgggcct acgggaagta 180
 tgattttttg tcgggataga aattggaagg ggatacattt gtaggttttg gttattcttg 240
 tttatgcata acttgcagaa acacctataa cctgacactt ttatgtgtgt acaagttctt 300
 aatggattcc anacatccat gatgatatga aaataagttg aattatttat ccagaagatt 360

gtgaaagatg tttccctgac aatattcttg ttattggttt 400

<210> 30949
<211> 429
<212> DNA
<213> Glycine max

<400> 30949

tcaagaataa tggctctcatc aaactattta tttctcgaag ggaattctat aaataggcct 60
cctattttta atggcatggg ttaccattat tggaaaaccc gcatgcaaat ttgtatagag 120
gctatagatt tgaatatctg ggaagccaca gaaattaggt cctacattcc cactatgggtt 180
gcaggaaata caccataga aaaacctagg gaagaatgga gtgaggagga aaagaaatta 240
gtttaatata atttaaaatt caaaaatata attacatatg ctttaggaat ggatgaatac 300
tttaggggtat caaattataa aaatgcaaaa gatatgtggg ataccctaca ggtaacacat 360
gaagatacaa catatgtaaa aagatctagg ataaatacat tgacacatga atatgaatta 420
tttagaatg 429

<210> 30950
<211> 403
<212> DNA
<213> Glycine max

<400> 30950

agcttaatcc cttgataatt gagggtagga gatttgcctt ggattcagct agggactact 60
ttccttagca cccttatggt caatatgttg gataaataaa aatagttttt ttttgctata 120
tgcattgataa tttcgaatgct agttatcaca caaatgtatt atacataagt acctatcaca 180
taaagagtgg ctatgcaatt tagaatgcat caagaagttt tagattacgt ggctacattc 240
tttggaacca aaggcatcgc atggaaaaat tactacatac ccatatctaa tgggaatttc 300
tattttccta cttggctttt gtgagggaga tgccaccaca cgttatgcag gatgggtggaa 360
gcagtcaata ttgtatcatc atcgtgattt tgcaaaaaat att 403

<210> 30951
<211> 412
<212> DNA
<213> Glycine max

<400> 30951
 agttgggggc acttataatt taactcattg atttgtcaag aaaactattg gaaaaacgag 60
 agtgtgtaat gatttttgtt ttttgtcttg tatgaacatc ctatagtaaa atttacattt 120
 ctctctatat gattaacttt ggattttgag tcatacctta tccaaaacta ggcatacatg 180
 actttttata ctggtaaagt ttataaaaatt ttgttatatg ataagtataa gttatgcaat 240
 agttttataa gtactctata gaaggaaaaa aatgtaaact tgagttttta tataaatttt 300
 taatcagata aatatattta tgtataaatt tggtttgggt tggattagat tgaattttta 360
 aatgaaatcc aaaatctgat tctatccaaa acatatgagt ttgttaaatt tt 412

<210> 30952
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 30952
 agctttgaga aacaagtgat catccattgg caagtgatca tccattggca tcatcaaaac 60
 attcagcttg atccattatc tacattatgt tgacaccaga gccatcgcca actaattact 120
 aatcagtacc atgataggga ttgttacagc gtagattttt gcacaatagt ccatgatcca 180
 gttattttgc aacggaataa ggtgtggtct tggcatgatg agtactaggt ccacttggac 240
 attttggata gccatgaagt ttatagcaaa ccatggcagt gttccctagt ttctcatagt 300
 attgacaaat aacattcttt gttatgcctg aaaatatgga tctgccatat gttgaagtgg 360
 tttgttaaac atccgcaaga ccatgttttg atagtatgg 399

<210> 30953
 <211> 153
 <212> DNA
 <213> Glycine max

<400> 30953
 tatgttaatg ggtcttaaga ggaaagctca ctaacacaca ctcaaactta cttattaaac 60
 atgctcatga aaactatttt ttctcaatta aaataaatcc cttttatttt cctacaccaa 120
 taacccaaac tagaattaat taattaatta att 153

gaaattatca gccacatatg ccacggtggt gccctagtgt cttgagaatc atgacttata 120
 gcatgatcca gtatgccctt atagtagatc gagctcttag cggatggact aattgtcact 180
 aagatacttt aagtctatac tcacacctta cccaagagat gaaaaccttt agttaccatt 240
 caaaaggagg ccatctgcta caatgtntat atatacatca tgtacctgat gttctacagt 300
 tga 303

<210> 30957
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30957

ccagttctgc gcaagctgcg agaattttac ggtggtcttc tgatagcacc ctgatgtact 60
 atggcagtg ctcctgtata gcttgcttac ctatccgccc cgctgagctc tgtagagaca 120
 ctgggtggtg agcagctttc tactatgcgg cactactatc agttgcgaac ctatcgcaaa 180
 cgtggagagg aacatgactg aaatcgtgcc gtaatcacgt ggtcataaac catcactcga 240
 aaagaggagc tatgcgcagg atcctctgtc tcatccgaaa ttgtccgacg gatgcgctgg 300
 gataaggaca ttgtcgactg ctngtcacac gagctatgta gtagcgaca taacagggtga 360
 gccgtgcatg gattgggtcca caagatgctt tcgagaattt gactgcctga acgcagacg 419

<210> 30958
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 30958

aaagttcccg atcaaagatc ggaagaaagc aaaagaagaa aatttccgac caaagattgg 60
 aagaaagcca aaccgaaaag aaaagaaaat tcccgatcaa agatcggaag aaaatgaaag 120
 aaatatgcag aaaggtcttt ggaccaggca atatctgaac aatacagaat tgtcaccccc 180
 aaataaggaa ataaaggaaa ccacgaccgg aagtggctct ctccctttga tcgccaacca 240
 aaatcctgtg cgctagcgac tttctcacc cgcactaaac anaaacagaa aaagaaaaga 300
 cccaaacact 310

<210> 30959
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30959

tctcaaggaa gttntcttaa gaaagcttct caaggaagct acctagtcta taaatagaag 60
 catgtgtaac acttggtgaa actttgatga aggagagtct tgtgagacat aactcaaagt 120
 tcaacttctc tccctttttc ttccttcaat ttcggtgctcc cccctctctc tttctctccc 180
 tctttctttt cctccattga agcctcctct ccaagcttct tatccaaggc tcatcttggt 240
 ggtgaatctc cttcttccat ggcttatcc ctagtggatg ggcctctctc tcacctcttc 300
 tcctttgtct tccgcttcat ctctatggtg gaaaaccacc attaaaggac ctcatgaag 360
 ctcanagatc cagcctccat agaagctcca caagcaagct tccatcaagt ggtatc 416

<210> 30960
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 30960

agcttatgca tggattatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60
 gctaaccatg cattaggtac catgttcaat tattttgttt ttgagtgaac cgggtttatg 120
 atcccaacat gggtggctcg tgggtgcctaa cacatgaaac taagaatgta gtgtgaagtt 180
 tcacgcttcc cccctttttg tttttgttat gtagaggaaa acgcaaggat gagcacacat 240
 gaaaacaaat ggtatgcaat ttgacagatc aaaaagtttg ttgaacgcat atgcatgatg 300
 atgccatgac tcatgcaaaa tgtgaggctg gaatatgata acggacaaat gcaggatatg 360
 tccattatga tgttatgaag agatgcttat gcg 393

<210> 30961
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 30961

catgcatacc caaagcattt tggggtacca aaaattgcac atgtacacct cttggtattt 360
ctaataccta tacatacaca aactttatga tgaatcttga ctatctacac aat 413

<210> 30964
<211> 319
<212> DNA
<213> Glycine max

<400> 30964

agcttctata taagctgaac cattttatca ataaacacaa gttgagttct attcagaaaa 60
ttagagttta tctcttttat cttagtgaga gtgattctcc tagattcttg agtgattcaa 120
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
agtgattctt tctttccaat catctccacc cttggtcttt caaaccacaa ttccagaaaa 240
tccacctctg cccaaaatta tctcgtgaaa ggtctcgttc tgaaattcat tttacgctca 300
cgaatcactt actttgagt 319

<210> 30965
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30965

tatgaccatt cgaatttctc gagagtttcc gttgttcaat ttcgagcgtg tagatgagtt 60
atgtccccga atcggacatc tgtgtgaaaa gttatgacca ttcgattttc tcgagagctt 120
ccgttggttca atttcgagcg tctcgatata ttatgacccc gaatcggaca tctgtgtgaa 180
aacgtatgac cattcgattc tctcgagagc ttccgttgat caatttcgag cgtctagatg 240
agttatgttc ccgaatcgga cattcgagtg aaaacttatg accattcgaa tttctcgaga 300
gcttnncgtg gtcaattttc gagcgtctcg atatataat 339

<210> 30966
<211> 400
<212> DNA
<213> Glycine max

<400> 30966

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctccaa cgcgaacttt 60
gaccattgtt cttccttccc gcaatgcttc tcttcatgtc tgccctgagtg ggcttatagc 120
ctaaaccata cttcccacga tttccttgag tatttatcag gctagttatg ccgccgttgt 180
tttttcctaa acccatcccg ggttcaaaac cgttccccaata cataactcgg gccatcatta 240
ccgctgcatac ggacagacaa agttgcccaa agaggaggagc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagca gtttctaacg attcttctgc ggcttccaca taaggcatgg 360
aggatgggca gcttaccaag atatcttctc cgctgacac 400

<210> 30967
<211> 296
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30967

ntgaggggtgc gtagccacc atctnttcat agtagagtat cgataatgtg tctaccatca 60
cgatcatcgt ctccttttcc atcattgggg gtaccacctg tgccgtcaga tccctccacc 120
ttttgggcgt gttctttgaa agatccgtac cccttattgt aaatgttatg tagttgcatac 180
ctatacggaa ccatatccga attgtactga tactgactaa caaaggcaac cattatgtcc 240
atacaataat ggactcttga aaagtgcag ttagtgtacc atgtaacagc taccct 296

<210> 30968
<211> 375
<212> DNA
<213> Glycine max
<400> 30968

tttctgaccg attgtctctc aatatgcacg ctccattcag ataccatgt catctcaggg 60
gggtagataa ggaattgggtg cccaatcgtg aattctgtaa agccaactac cccatcaaac 120
accttatgta tacctgtaag catttgatc tctattgcct cttcaacaac tgtatgatct 180
gtgagaatta tatatgacac caattctcta cccgggtaac tcagtaatat ctttctactc 240
cctatatgta tctaccctta aatgacctaa attccatcgg ctatttatta aaaccgatcc 300
tttctggaaa gttattctcc ctctttaaca caatcggcat tccctccccg catttaatac 360
cataatcctc gaccg 375

<210> 30969
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 30969

agctttttatc tgataatata taagattcag ctagcctatg aataggcgta gaaataatcc 60
 taggcgagtt atattttgat agatctgatt ccgagagtca tatgtgtatg atgtgactta 120
 gagtcgtcta cctatcaata gcgtctctaa g 151

<210> 30970
 <211> 114
 <212> DNA
 <213> Glycine max

<400> 30970

tagcatgtac tatgatcttt gttggcgttc atgaagacca ttgtccgaaa gtagttagca 60
 ttgaaaaacc tcgaaaccat agcattgggg tgagaaaataa acctccaccc ttgt 114

<210> 30971
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 30971

gctaagtgct gagttgagcg atagtgtttt atccttgttt gttcgggctc gttgaagcct 60
 tatctatcat tcccgacatg ttgacaacct gtcgagagct aatagagtat gctggacata 120
 aatatttgct tacaatgtcc aatgcaatcg cgccttgctc ataattgtggc gtatctataa 180
 tctaatatct gccaatatcat aacatatttg aatacattgg aatattagtc caattataga 240
 ctatctgttt ggagggggagc ccggctacta acggtcacac tttcactttc ctataacaga 300
 ccagacccgc aagattgaca 320

<210> 30972
 <211> 565
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 30972

ctgccacaca ccntggtaca tcnntataac atatatgata atataataat tagcacacn 60
cacaccctnn tnnccncccc caccagnaca gcnnccctga aaccctgttg anaccntagc 120
tannacgnga cactatngaa tactgaagct taacaagntc atctatggat tgaacaatc 180
ctcccgcta ttggtattac aatatccaga aggcatttcc tcattcagcg ttgaagagaa 240
tgtcccgat cactgggttaa accacaaggg cagcggggaga aagaatcgtc tccttgatt 300
atacatacca tgatatctta ctgcgacta atgataaggg aatgctatat gaggcgaaac 360
aatctctctc aaagaactgt gataagaaat atatgggaga ggcaatttac gcataggcaa 420
aatactcata acaaagaact cgaagcattg tatggttgtc cacagaacct atatcaaaa 480
ggttacagag aatacaaaaga aagattgtca ccaagtgaac ctccaatgga aggtgacaac 540
ttcgttgaag catgcccata atgaa 565

<210> 30973

<211> 294

<212> DNA

<213> Glycine max

<400> 30973

acttatcaca cggaagtccg attggagtgc ataatatatc gagaccctca atattgcaaa 60
aggtagtcct aatgaaagat aaatggggat aactttttta acggaagtct caattcaagt 120
gcatacaata ttcggaagct cgaaaatgaa caatggatgc ttctgagaaa attaatggg 180
cataacttat cacacggaag tccgatttag ggcataata taccgagacg ctcatattg 240
caactcgga gcaactcaaga aattcatgtg gtgataactt atcacacgga agtc 294

<210> 30974

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30974

accaccacc cactgcactc acctaataca gctgacatgt tgcacaatcg tacataataa 60
cacaaaaacn naaaaanaaaa aacgagnnac attgaagcca ttggaagcca tgtagaatcc 120
atggccaaca cnagctcnac acccgagaaa ccacctgagg cgacctgcag gcatgctagc 180

atttgtgagc tttttaagtc tcagagaaac gagacaacgt gataccttac gacaggaact 240
 ccgaaataact aatgagaact aggagtatca cctatcccac aacgacgagg tggaaggcat 300
 ggccagcgaa gtaccaccat acacagtagg agaacagaaa ctagtcatgt actcaacagc 360
 tataatctat gaacaccata ttatcccgtat tacacggccc agtacgcggg aacggacaca 420
 caagcacaag caaacatcac gtgtgtcagc taacaacaac taaaacagtg ttagactaga 480
 taagcacatg agagagacat gaatggaaaa gaagaccaac gccataaacc ctgagtgtaa 540
 gaaattagac aaaatgacga acc 563

<210> 30975
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30975

nggatgccct ttgtgatact tatttgaaac ccatgggtcaa gncncnagn ggaactctat 60
 aatagttgac acttcacagc atgcaaagct ttcttgtcta tattgtataa antatttatt 120
 cttttgacgc atcatctgac ctcaatggca tatatcttta ttactgaata tcccacgtcc 180
 tactcgtaa tcaagctatt cgctcaacac ttaatgtcac tatcttctga tatctgaatt 240
 tctcactcac tgtaatttga tgatcacgca tctagtgcac cgaatttctc atcaacaata 300
 cgtgtcctgg ctgccactat tatgtagata agatgctcat gtcaggctctc tcgagttaat 360
 gtactatatg ctcccatctc ccccgagttc caaagatcaa ccatctcacc cccgcttact 420
 ttgttatctt tggacttgac attctcaact cactgcacga agtacacacg atcatcctat 480
 ttctagtttt tgcttaccta tgccctactt attgtaccac g 521

<210> 30976
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 30976

taatacatgc aattcatatg atgaaaacat ttatatcact aaaatctata gtaactaatt 60
 aatttaattc tatacattat tacatagacg gaacgtttat accatgcac aactaaataa 120

accttttttag gaaaaaataa aataaataaa agtgaagaaa aaaaaagaag agagcaacaa 180
aagacatccc gtgttcgagt tcttcattga taaaaactaa caacgtttac aagttattct 240
aatctcaaaa aaaaatgaat cagcatagag cttcacatca ttattca 287

<210> 30977
<211> 204
<212> DNA
<213> Glycine max

<400> 30977

ttttggggac ggcaacaaac ccggaatggg ttttaaggcca aacaactacg gaccactta 60
cctggtcaat gcctaataa atcgagggaa gtatgggtta agctataatc ccactccgc 120
cctatatgaa aagaagcatc tttggaatgt agaacggatg ccaaagctcc cagttgtgac 180
aagaatgtga agggatccca ccct 204

<210> 30978
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30978

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ttaaaaatga atattcacca aactgttaac aagcattgct caaacttaat gttatatttc 120
tgattctgat ttctcactag tgaatttgag gatcagcagt agtgatgaat tccacagaag 180
aagagtgtcg tggctgcgag attatggaga aagatgctca tgtcagggtt ctcgagttaa 240
tgtactatat gctcccatct ccgtacgagt cccaagagat caaccatctc accctcgctt 300
actttgtcat ctctggactt gacatttctc actcactcca caaagtacac acgatcatcc 360
tattcctagt ttttgctnta cctatgccat tactattggt accatg 406

<210> 30979
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30979

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 ttatttttatt tatataacta gtattttaat acatgcaatt tatatgatga ataattttat 120
 ataattaaaaa ttataataa ctaattaatt taattctata cattattatt taatgtaatt 180
 ttataccat ccatcaaca aataaacctt tttaggaaaa aataaaataa ataaaagtga 240
 agaaaaaaaa agaagagaga aaaaaaaaaac atcacgtggt tgagttcttc attgataaaa 300
 actaacaatt ttaacaagtt attctatctc aaanaaaaaa tgaatagcaa tagagtttca 360
 catcattatt catcacattt gcaagttgat ttaattatga aacaatgata cacaaatact 420
 cag 423

<210> 30980
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30980

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 ttttccttat cttccaatgc tgcccttacc gccgttagcc cttggccaaa agaatttgag 120
 tatcatattt atatgtttga taattattat tattgttatt attttttctc ttgatgcacg 180
 taaaagagaa taacctaaac ttttatatat gcgcattcaa attaaaacta acatacataa 240
 atgggtcaatt aatggatctt acataatgac tcgttttcct ttgcttcttt caagagagat 300
 catcatcaat tgatatggaa tcatgtgtgc ctctgcatt tagatctcat cccacagaag 360
 aggagcttgt gnggtattac ctcaagagga agataaaactc 400

<210> 30981
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30981

gcactcagct atgtaggcaa tcgtgatctt tgtgggcctc cacttaccaa aatatgtttc 60
 cagggtggtgta aacctaacaa cacagagcca atagatgaag atggagatga gtttgcattt 120
 ttgtcgtggc ttacattgg aatagaatct ggatttgcca cgggcttttt gggattttgt 180

tgtgtcattt tcttaatcag aaaatggagg catgcatact tcaagtttct ttatgacttg 240
aaagaccaac tttatgtcat ggtggccatc aaaatgaatt cttttcgttg aggtcggaca 300
caaccatact ggtaagtaaa acctttgatt agttgaaatt tcngttttta ttatacaaga 360
taaacaataga ccatatttta acat 384

<210> 30982
<211> 268
<212> DNA
<213> Glycine max

<400> 30982
agcttattca gattctgttt tacatattcg agaattacta ccgggcaacg tgaaagtctt 60
aattcagtggt aaaaatctcc ctcccagtgga acatagttgg gaatctgcgg ctaaattgaca 120
ataggttatt ccgacttatc accttgagga ctatgtgagc ctttttaggcg gaggtattga 180
ttagaataag cataatccac acatcaccaa tgtgtacacc cgcataaatc ccatgggtgtg 240
caaaccaccc aacatttaca acccacc 268

<210> 30983
<211> 426
<212> DNA
<213> Glycine max

<400> 30983
taggagtgaa ccattaaggc attgaccaac agtatgccat cttcttcaca gtgatattga 60
gggggaaaga gagtgtgcgt taattaaatg ttttgaagtt ataaaccag tttacatgtc 120
tctcattata tcggttgagc tatcttaaaa gaattgaaga tgtttttaaac tacacaacga 180
gacatctttt ttttcatttc tataaattat accaatcgcc attgtaatat caagtttatc 240
aagtgatctt actaagattt tgttaaaaat aatcccacat cgagtaattg atgaacatga 300
taagtgetta tatagctagg tagaccaccc ccttatgaac cggtttttaa ggtgacctt 360
cggatgcctt tgctacacta taaaatctga tatggatatca gagccatatt caacagccct 420
gactcg 426

<210> 30984
<211> 400
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30984

agcttgtaac tcataattnt tagttgaaat tgtcaatttt acacatgcaa tcttaattct 60
 caacacactn tttggatgag tcttccaagg attgtgttgc cttctctaac tnttcttctt 120
 tttccagcga taaggtaaag ctacaaaatt gagtcttcca atgtttgata taagttttgc 180
 aagaccatct ttaattcgaa taagtggcctt aaaggtgtaa atgcacagtc cttccaagcg 240
 agcaactcan aggtgtaaca ccatcttaga atttcgtatg agcatcttca atgaaaatgg 300
 aagacttgaa cgaaaatggg tggcttgctc ctcatgttgc tgggaataga taaggatcta 360
 tataatgagc acaatgtatg aaggatggaa naacttcaat 400

<210> 30985

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 30985

tgtgcatcca ataccctgat gaggatgtcc catatgttct taaaactgga ctaattcatt 60
 tgcttccaaa gtttcatggc cttgtaggtg aagacccgca caaacatttg aaggaatttc 120
 atattgtctg ctccaccatg aaacccccag atgtccaaga ggaccacata tttctgaagg 180
 cttttctca ttcattagag ggagtggcaa aggactggct gtattacctt gctccaaggt 240
 ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattttc cctgcttcca 300
 ggaccacagc catcaggaag gatatctcag gtattagaca actcagtgga gagagcctgt 360
 atgagtactg ngagagattt aagaaactat gtgccagttg cctcaccat cagaattcag 420
 aacagcttct tct 433

<210> 30986

<211> 397

<212> DNA

<213> Glycine max

<400> 30986

agcttgatt atagttaaga gtcacgagt cactatacca ttaactatga aaaaaagtaa 60

tgatcctttt gctttaatcc attatgacgt atggcggtcca tccccaaaat cttctatata 120
 tgggtataga tggatagcga tatttgttga tgattgcact ccaacgacac gtattgactt 180
 gatgaaacaa ggatatgatg tggtagacat acttgaacaa tctcatacta tgattcaaac 240
 tcaatattca aagaagacta cgatccttcg ctctgatacc atgtataact gatatgatat 300
 ttgcatatat ctcaatcgca tcttacaac ggaaatatgt tatatgtata tacacagaca 360
 accctatgtc taattataac tagatcacga taattat 397

<210> 30987
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30987

tttctttctt ttgaggatga gaccagtctt tatccccaaa tacatggggtt ttatttctaa 60
 tatcaaccca actataacct ggctacttgt tcatgttgct aatttttata atcttcttca 120
 aacttcgtac atcttcccat tgctactctt ttgcgtaaat atttgaaagc caaacatgag 180
 ccacactatt tttaggttca gccttcatca atttgtctgc tgcaagattg gccctttcca 240
 tgtcccatg aatttttaca gccccaagaa aagaacacca gccaaagaca tgttatttat 300
 aaagtcttct gcttctttta gctttccagc tctacctagc aaatcaatag cacaactgta 360
 atgctcttct ntaggggacta ccccataaat cttttcatgg aattaaagta gttatacccg 420
 tctcaacca t 431

<210> 30988
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30988

cacttcccca catactccat taacactatt ntacaacata tagtgtntac ttacacgaca 60
 cattatattt atcanncccc nagagggggt tgaagcattg angccatgga naacnaggnn 120
 agacnagggtg atcctctaga gatcacctga gagcatgctc acgtgttttc gctattgtga 180
 ttcaaaaaga cccgcgcctc tccgcacgcg cagcgaactt cataataagc ttacagacgg 240

agcacttaac agactaagca ctaggtcaac agaaaaacta ctacaaagaa atagagtcga 300
 acatgattag gatcaggatc atgcaccaat tcgacccaag aatcaaagaa taggcctaaa 360
 atgacaataa tcgccgaaca aagtgaacta caattcactt aacgcggaaa taaaaggctg 420
 caacatactt gcaacaattt gcgacgatta ctatgagtga gaaagactct aacaggatag 480
 ggagtatgtg atgcacactt atatatattg cgcactcttca gaagatgaat catgggtggg 540
 agaacttaaa aggaaggtca gcaccccg 568

<210> 30989
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 30989

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 gcttgatgac atgcgacett tctttggtcc ttgtgaggtg cttggcacc c atcattaggc 120
 aatttgtgaa attccaggac atgccagaaa accaaaaaat attgatgcac aatccgtaag 180
 tttccgtgac acaccggaaa tcaaatggaa gcatcggttc ataattaagt gagattccgt 240
 aacattccgt aagtcaaaaa ggggatgatt atgtaattcg caaggttccg taacattacg 300
 gaaagaaaac aagtatcggt acgagaatcg taagtttccg taactttacg aacaaagact 360
 caccaaaaaa ggaagggggg gaac 384

<210> 30990
 <211> 232
 <212> DNA
 <213> Glycine max
 <400> 30990

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 tcggtttaca catcgactac gcatcgatac catacctcta tacactggcg gatgacgca 120
 ggtaattacc cttctacgct cattgatttc agaaaagact tcacgatcta gacgaacctt 180
 ggcattgccg acttttcttc ttgtgcaacc actgccatct tactccaccg tt 232

<210> 30991
 <211> 392

<212> DNA
<213> Glycine max

<400> 30991

taagcttgta taaattcttg tgatgaagca catttttgaa tccatctcta ttatcaaata 60
aataaaggct gaagcacagt gcttcatgat atttcaaaat catggagaat caaactttcc 120
atgatgacca tttgaacaac tatatttctt tggataaaac tttttgcact aacagattag 180
tcacttaaaa gtatgatgga ccaattggca gcagatccag tcaaagtgg aaatacttat 240
ccaatacctg ccataacttt aaaattatat acagatcatc actgttggtc tcccaaacc 300
gtgcatttcc aattgcaaaa caaccacatg gcgatctaaa aggatttgag tccagaggag 360
ctgcatcatt atacacaatc acatacatca tg 392

<210> 30992
<211> 563
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 30992

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tagatgaagt aactttaaga aancnnnaaa ccagaggcaa cgttgaaccc tttgangccc 120
atgtgcancc ccaggcgata ccagctcgac acccgagat cctctacacg catccgcacg 180
cttgcaanct agtatgaaca tggatataggc catctagaac gtgccaacgc atgccatata 240
cacgctgttt cgcttacgaa tcaatagcca gaagaggata aagcaccgaa atgaacaatc 300
tgaaacataa agtcaactgaa ccaaaataga tacctacaca aatgggacaa cgcaaagcta 360
tcaactgccag actgagaagc aatgtttgat aggaggctac atacatacgt tttgctctta 420
ccactcaaac tgaactaaat caccaatctt ttctatgact cacgcccac tacataatca 480
aaaacttaaa cgcacacac ctgcctccgc atgactcaac gttcatagct aaacaaagaa 540
ctatcatcgt ccaattaata acc 563

<210> 30993
<211> 83
<212> DNA
<213> Glycine max

<400> 30993

gtggaactgt tcctcaaggg attaaaggaa gagattatca ctaacgtgag gcttcatgaa 60
ccatagaact agatggaagc tat 83

<210> 30994

<211> 368

<212> DNA

<213> Glycine max

<400> 30994

agctttcatc tagcctatat tatacaaaag tggtacaaca gaacctaacg gtatctaatt 60
atatggggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatttcctcg 120
ggggctgtac acacttcaac gatggccttt gctttggcta atagtcgagg gaggtcttga 180
cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgca 240
tcaatcacct ccctcttctt tctttttcgg tgtacacttg tgcaaaatcc tctattagct 300
tttgttcatg ggtcatagac tgggtcaact cttccttgta ctgccctatg atagctagca 360
tgctttgc 368

<210> 30995

<211> 387

<212> DNA

<213> Glycine max

<400> 30995

tcaaagatga ggtcaaaggc tacattctgt gtcaaatacc tgtgtcttaa cattaagggc 60
tgatgggtat ttccgggttct ataaaaaaga cacatatttt tgagattccg atcacgcaa 120
tgtgaccggg gttccgtgaa tgccgtaaaa acaatctcaa tggtataaaa agataactct 180
taaaatgtct cattctctat gggtattcaa aggaagtgta tgatcaccgc attacagtac 240
cctgcacata gaatacacta tgaggagctc aaactagtta cgagaatgct tagaactcaa 300
ggctaccta gggaaacttt gaaatggagg attctgagga ttatctccat ggaatcttct 360
aggaggattc tgaggatttc actctga 387

<210> 30996

<211> 383

<212> DNA

<213> Glycine max

<400> 30996

agcttgattg caagttgctt tgtctatatg catcttaatt cttctagatc ccacccctacc 60
attacaccaa gtgagactag atccccctga acagaggtgg gtgagatcat tctagacaga 120
ccaattggaa aaatcttcac aagattgctt gaggggaagg tagccaccaa ttctttcatg 180
tgccccctgaa accgcattga aatcaccaat gttaaaccacaa ggtccaagga agttgatcag 240
catagaagag agctcatgcc ataagattgc tcttttaatg ttggaggtgg aaccataaat 300
agtagctaca taacatgaaa tgttgtaaat agaaactaca aaagacatgc tttgatcaga 360
gatagctaac atagacaagg aag 383

<210> 30997

<211> 311

<212> DNA

<213> Glycine max

<400> 30997

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gggagccaag ttatcccttg cgtactcgac ttcaaccatt tgagatagct gcctatgaca 120
ccttggtctac ttccactaag ttctttatct tttctttctg ctttattcca ttccttatag 180
atcctctgga gtgtctttac attagcttca ttgaaacctc gcgtgatgaa aggcgcgatg 240
gtctcctccg atggtgcacc tctcataggg taacctaaact ggcttatggc caacatggga 300
ttataattaa t 311

<210> 30998

<211> 377

<212> DNA

<213> Glycine max

<400> 30998

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aactttatcg ctatctcaag atttcaaac atacaatgac tgtactttga aaaaaaatgc 120
ctaacaacta tcttttagctt aaaattgcgt cagtagcata agaataatgc ttgtattcct 180
ttgttcacaa tgtaaaagat aactgtatac cacaacaaat atttcttagg cgaaaagaaa 240

gtgagcaatt cagatatttg aaaatgattt atgttttgat ttcctttcaa taaattacag 300
atgtataaac atatgctatc gcatagtcg atgattcttt cttacgttaa gaagagatta 360
atattatggt ctatttg 377

<210> 30999
<211> 465
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 30999

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taattgggaa accgtaattt gtttaattca ttcttattcc agacttgtat cattcgaaat 120
atattatcta cctatatattt attatattat gccatatattt aatgatggca gaccattggt 180
atcacagaaa atgaattgca cttttgcatt acgggtgggc ncattctagt gatgagattt 240
acttacttct acgtttgtac cactacatgc gggccttaac agtaaagatt attgtaattt 300
caaacactta atgcatcttc tatggcatat ttggcaataa ctatctctaa accgaaagag 360
aatatatggt ggtgggcgct ttcaacaccg gagtaaattt gtggtattaa taagtacatc 420
atattaaaga ggatctcata cagcatcggt ttaaaaaaca gggcg 465

<210> 31000
<211> 304
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31000

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cccccttcaa agatgaaaga aacgaatggt caagtatcat caacccctcc ccacccacct 120
gacctcaaaa taacggctaa tgttaaacac tcctcttttg catttcatat tatacaataa 180
attctatatt tacaggagtg tattcatatt agagatgaaa aacgtacgat tacacaccat 240
gttaagagat gaaaactgaa cagactatga tactcactcg cgcatacatt gcttattact 300
tata 304

<210> 31001

ctacgagagc attcaccat tgcattgcta cttaaagaac cactttttct ttgacctccc 120
aacctttatt gacatgccac aaataacaga acatagaggt tctttttttt tggtatgcat 180
ttgctttcag ctcatatttg cttttttttt tacgatgata ggtattacaa aagaatgtaa 240
atctgattct ctatgtatct gttactcata ttcttgagca taatttaacc aaaacactcc 300
cccaaatttg gaacaaattt gacttgatcc ataataatgc tctcctatag cctaagatac 360
ggtgcacata gatagcattt acatttagct tanggttcaa tgacacatat cgtcacg 417

<210> 31004
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31004

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agatatcgag acgtcaaaa ttagatccg aagctctgag aaaattgaat tgacaataac 120
tntatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgcaa attgaaaacg 180
gaagctcgta ggacattcaa acgacaataa cttntactc ggatgttcga ttgaatcggg 240
taatatatcg agacgatcaa aattgagact agaagctctg agcaaattga gatgacaata 300
actttataca ctgatgtgag gctgagtcgc gtgatatatc gagacgctca aaatttagat 360
ccgaagctct gagagaattg aattgacaat aac 393

<210> 31005
<211> 206
<212> DNA
<213> Glycine max
<400> 31005

ctcgatatat taccagactc atgcggactt tcgtatataa acttattggc aattaaattt 60
tctcagagct ttggagcaaa attgtgagcg tctcgatata tgactggact cattcacaca 120
tccgatgaaa agattattgg cgtgagaata tgagacgagc ttccgttgtc aatatggacc 180
atctctcgct atattgcgat aggcta 206

<210> 31006

<211> 391
 <212> DNA
 <213> Glycine max

<400> 31006

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agctttcttat ccaatgctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatggca cctcctctca cctcttcttc tttgtcttcc gctgcatctc catggtggaa 120
aaccaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagtttcc atcaggttat ataagaggtc acatggtggt gtcctagaga attttctcaa 240
aaacccaaat gtcgacatag ttagtttcga gagatctgca aacaccatgt attcaaatat 300
catgggggtgt tggcatgtcg cttagaatth gatgtacatt aaaaatgtgg ctctcttctt 360
ttctcaaaat ggtgtttcat agttataaat c 391
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<210> 31007
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31007

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tgttcggctt aattgtagtt tcgaatcgtg gagtagttgt tatcattatg ttttatgcat 60
ctttagtagt tgggggttga gacgggctcg aagatggaat gttatttata acaactttta 120
ctaagttatt cacaacctct ttaagatctt caagagttga tttcatattt gagatttctt 180
gacatacctg tgttatagat atgttttgtg tctcatgeat aacttttccc tctccaacag 240
ttgaacacta ctgcaaaaat aacatactac gacagttctt gagtacattt aaagaccatt 300
ttgaatcatc tttgaaacca acatcgttga aagtcttgac tnttgacgac ggttntcaaa 360
anacgtctt agaaaaaagt atcattntaa gacggttctt gattaagaac tate 414
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<210> 31008
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31008

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actcttgcctc ctctgcgaag atatgaacac atctataacc ctccctatctt acggaagatc 120
 ccccaacaagt tactaacatt catattcttt gggaatttag tgaaaaagaa tgtagtttca 180
 tcacctcccc tcccttgatc acctttccgt gctctacccc tccactctcc atcctctctc 240
 attttcctaa tgcacttagg gacacataac cccttatcaa gtaaaacaaa ttttaaaaaat 300
 attcttgggtt tatttagctt cttattctat taggattaat taaatatnta aaattcaata 360
 atattctaca tatttagcta aagggaacta tttt 394

<210> 31009
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 31009

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 cgaaccctat ggtccgatga agacacaact catggtagac ttcttggaag aattcggttg 120
 gaatgaccaa accaccccag actgggtggag cttctacgtt gacgggtgcat ccaacgtgaa 180
 ggggagtagg gcatgaatca tctttgaagg ccctggaaat gtcactctaa agcaagccct 240
 taaatttaac ttcaaagcct caaacaatca ggccgagtac gaggcactca ttgcaggtct 300
 aaaactagca acaaaagttg gggccataaa gctctgatgc tacacggact cgcattctgt 360
 ccagggggcag gttgccaact gataccagac caaagagaca atgttgctca agtactacca 420
 catt 424

<210> 31010
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 31010

tagctgtttg aatctatata tggtttaaag ccagcttctc agcatgggga ccttaaggctc 60
 catggtataa tctgtggata atggtatgat gataacctta tggatcaatg cctataccgc 120
 aacgttaagg ggagaaacag aggcgtcctt ggagtgtacg tacatgatat tatagttgca 180
 ggctatgagc ccggtttgct acatga 206

<210> 31011

<211> 130
 <212> DNA
 <213> Glycine max

<400> 31011

cgcaagagga ttggtagagg ggctatcatc caacgccttt atgtcttaca tctcaacgac 60
 acatcttgat tgcaaataca ctttacctgt catcaatttc catacacatg acattgctta 120
 cccagacgct 130

<210> 31012
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31012

agcttatcaa gatacgcaact gaaatcattt ccattgcgta tctaaacaaa atctgttgag 60
 atacatagca gaacaagttt tgtgttgat ctcgacatga caaaaattca ttntgttgat 120
 atacaaaaaa tataggttta aatatgtttt tatttcctat aaaattaaca agttatgatt 180
 ttaatcctta taaaattttt tctttagttc taatccttca aaaagttgaa attttgtttt 240
 tggcccctac aattatgcaa cactcattaa ttgcttgcac ttgacaaaag gtcaagtgac 300
 catcccaagt gacaccact agtggtttatt tttttgggtt agaccatagg tattctccat 360
 tggaggaaat cctgttcgag atggatagga t 391

<210> 31013
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 31013

tgaacgaata taagagacat cttcttcttc ctaggtgatt cttgactcca tctcattgaa 60
 ggcgaagtcc acttgtaact tcaaagtatc aaacctttca ccaacaaagg tttgaagacc 120
 atcgaacctt tccaaaatct ttgaaagaag agatgaatct tctccaccat gtccttcttc 180
 atcaacatgt cgagcaccct ttttcaccca agagccatca tgctcttttt gataacccaa 240
 ggatgcaatg acagaagttc ctattagaaa ggatctcttg attggaacat agggttcaga 300
 atcaagaggg atgttaaagt gttgaaggaa aagggtgact acgtgtggat atggcaatgg 360

agcattcaat cgcaatgcct tatgcatgcg atatctaaca agatgtgccc aatcaattt 419

<210> 31014
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31014

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 ccaaagtcta ggccattctc atgcagagaa tcaaagatgg ttttttgagg ataccctttt 180
 gctaaactgcc tcttgatatg acttggtgaa ccatgagagg ttgctgagta cacaaaaagc 240
 ctattggggtt gtgttggacc aggaattgaa gaanaccacc tgtcaaaaac agcaaattcc 300
 ttaaccaaag cagcataaat cggcacagag tccggtttaa accctttcat gacagtctca 360
 gagaggttgg gagacataga caatgc 386

<210> 31015
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31015

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 agtgaagcac ttcacttgaa aggcctgtac agttgtactt ataggtctga ttcccactgc 180
 caacaatccc acttggtagg ttttattttt atggaaatat cactataagc tctcattgag 240
 gattatgaca atgccctgcc ttggaatgga atagcctttc ctccccttaa aacttttgtt 300
 tccaaaagaa gctgtcgtag attttggact tgtcacttat ggtaaagata tttataggta 360
 tacatgtgct taanaggagt ntgacttgng attgatgaat gttgtanggg ttgaaattgc 420
 a 421

<210> 31016
 <211> 380

<212> DNA
<213> Glycine max

<400> 31016

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tctattatga ataatgaatt taaattttac ataagaataa ttatgatagt taaaaacact 120
tataaagaga tgattaaaaa aatgtacaaa tctagaagat aatattaata ccatacaaga 180
ataatagaat ataatatata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tatatatata ctgtgtatat atactcaacc tcatgcatat accttcattc 300
aaattaaata ataacctata acattcgagc tgcgaaatct gctgctctca tattggatta 360
tgaattcttt atctaaacag 380

<210> 31017
<211> 352
<212> DNA
<213> Glycine max

<400> 31017

aatagtgaga aatataagaa ctattttaac ttctaattta ctctgattat tgatttatta 60
cagtatgggt aaactatgat taactataaa gtatgatgga acaaatatga aaaggcttac 120
cgactactgc tgattatgaa ataaatacac aacatacata gagtgaaatg agcatatatt 180
tcatatgatt acaatgacaa ataagacctt attcatcagt catcaccaaa tgagcataat 240
cacataaata aatgggtcgga aatttgtctt aaattgaaaa ggaaaactgt gaggggccac 300
gatcactgtc agctgtgggg aatgaataaa ttcacccatt cattcattga tg 352

<210> 31018
<211> 167
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31018

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gctctgatgc cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc 120
ccttgccgnc gcatcgaata taacattcga taatgtatgc tataccn 167

<210> 31019
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 31019

agcttttgat ataacttcta atgtgaatgt gatatgcgta tgcgcctaata taagctatatt 60
 actctaatagc accttacatg taattgtaca catattatatt gcctatatatt gatgtttggt 120
 gtttcttttaa atattgggtga tccttagtga gcttgaaaca ttaacgtgcg gagtaaaaat 180
 tgcatttttg tttaatgttt caacaaaacc tttttttttt catttttttg gggggggggg 240
 ggggggtgaac aaacaactga tgaaaatctc ctgtgataaa ctacaaaatc c 291

<210> 31020
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 31020

agctttggca tctgagaggg gtcttcatgc tgttattgat ggtttctggg tggaaaatcc 60
 taatttggtt aagcctgaaa ttctgcagca tttgcaaagc agattcaaata taattgaagt 120
 tatgtacaag cactggagct tatttaaggc agaaattcta cagcatctgc agtctgtggg 180
 tggaaaaagg gtgggagtgg aaatttaaat ggagaagaca cttgtttgac agagaccttg 240
 agatggcaga ttgtttccgt aatgatgttg ctggcaactg tatttacatt cacaaaaagg 300
 atgagtggat ctggaaaata gaccctactg gacaatattc ggtaattaaa ggagagacta 360
 caaacaaca caaatttgat gaggataacg gtggcaatta atgacacatt atgcccattc 420
 t 421

<210> 31021
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31021

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 accacatatg aatgagttta tttttggaaa tatcatcatt aatgataaaa ataaagatct 120

atggacatac aaacaccata tatatacgca ctgtaaacgg ccaagacttt agctgataca 180
 agtgtcatct tctatactct ccctctcttt ctttatatat atgctgccag attgctcact 240
 tcgcaaaca aagaacattaa tgtccgcttc atataaaca actgttcact ctgctgctgc 300
 ttctatggac agttaccaa tctctacatt ttctcggtac tcttcttacc ctgtaatcat 360
 tcttcacgga cttccgaacc cggacacttt tcc 393

<210> 31022
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 31022

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 tctgcagtaa attagtttgg cttcaccttc tctctgtgct tcccttaaaa aaaaacttga 120
 tcttgaaatg cttagtcttg ccataaaaaa caggattatt tgaaatggaa atagctactt 180
 gattatcaac aagaatctgt gtaggctcct tttgttccat atgtaaata gcaagtatac 240
 gccttagcca aataacttga ttcacaactg cagtggctgt catatatact gcagtgcctg 300
 tagcctttgt ccacagcttc tttggcaact cctttttata caacatacac cttgtcatct 360
 tcatgatatt tctattttct tctctcactt gtaccattct a 401

<210> 31023
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 31023

tgttgaaact aaggatggaa tagtgatgca ccagaagaag ttcatttaag attgtttgaa 60
 gaggttcaac atggatcaat gtaataatgt agatatttcc gtggaaggaa atatgatact 120
 ggatacaggc gatcatgaag cttcagtaga tgccacattg ttcaagaagc tagtgggatg 180
 cttgagattc gtctaccata gtagaccaga aatctcatat ggatttggtc ttggcagcag 240
 attcatgagt aatccaaaac agtctcattt ggcagcagca aatagaatct tgagatatct 300
 aaaaggaaca cttaattatg gcatattggt tcctcatcag acagaaaaat gtgagctata 360
 cctcgtagct tattctgact catactggtg agggggataa gtggagagaa gatcta 416

<210> 31024
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31024

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 tcaaatgcta tcaaagctta atttaaaata tgtgtgcact ttggaccaca atgtgtgcaa 120
 tttctgaaat ggggttcaat ttattataac aaatagtgat gtacataatg tttgtacaca 180
 tttatatatg tgtggcataa tgaattatac tcgtaaatga aatatactgg tttaggattt 240
 gttttatttc tgcatacctt agcaaaggaa acaactcttg taaatttgtc aagttaatat 300
 ccaaaagctt tagctacttg agacgcacga tctgcatatg ccaaaaaata ttatcgtttt 360
 ctccatcatc caaactnttc agttttcctc ctgttatatt t 401

<210> 31025
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 31025

ctcatcactt tcagcaatac attctccac tcaaatagtc tccgatgccca ttcattatta 60
 tagccaccat tctgaccac ccgagaatca acttactga caaggatatac tttatccatc 120
 acaacgagaa caatggccag attttatact tcatggtaat ttcacccttc catatatcta 180
 tccaaaatgc atatatgcac cattccccac ctttctaatac atattaactg aaaaccaatt 240
 caccggacat aatgaattat gattttcccc catcatatcc ttccaccata taaaagtttg 300
 actatgagtc aaactacctt ccacatccaa tcaatagtca tacctgaaat gtataaaatc 360
 aaactatata gtgtgcttat ctatagagat tctcctcctc cacttagcta gaaggcttgc 420
 att 423

<210> 31026
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 31026

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gtctgcatgt ttgatgatta acaaaaaaga tttttgtttt atcaaaggga ctagaagcgg 120
gtgaacagaa acaggtggag ctactagatt gctaggggaag ttatgctaac ttgggttgat 180
gagttccttg tattccaaag aggtatttaa agggatggaa actaggaagt gaatctttga 240
cactttcttt agtggggcaa ctcaaccttg gatcatcaac cttgattgat aaaaatgtac 300
tgatatgaca accgtgacaa ttattcaaga taatatatttc acatcatgga ctgttttgct 360
tgctttaaga aatatgggttc ggtaagggtt agctttttga g 401

<210> 31027
<211> 430
<212> DNA
<213> Glycine max

<400> 31027
tacctgagtt aattgcctgc tttcatgatt tccacgtaat agggtaatat tagctgggta 60
tctgtgaaat tacagaaaaa taaaaggata tgtaagtttt caaaagaaaa aaaagaaaag 120
caccactgca aatgggtgta aactttccaa agtcaaatat gctagcaatg aaagactggt 180
tggaagtatc ataagcattt attgtaagat tgttgacttt tataatactt acttttaag 240
ttatatcaag cacaatttct aatgggctga cagtgtaaaa atcttcacac tgaccgttta 300
gcaaacttat acactttgat accatgggat acaaaccaaa ttaatcttaa aactcttctt 360
acatgcctcc aaagctagga caaatttcaa gtgataatct tattaacaat acatgtaaag 420
ccaacaagtc 430

<210> 31028
<211> 329
<212> DNA
<213> Glycine max

<400> 31028
aatcagcca ttattgaacc attatgaact ctccaaccac cgggaccatc tccggtggaa 60
gaatcattcc aaacaacagc aacaacaatc ttattttcaa aatgctattg gccaagcag 120
aacatacatt tcttcaccaa tccagcaaca acaacagcaa ccgccccaga aacagcaaac 180
aggtgaagct ccttcgcaac cttcccttga agaacttgtg aggcaaatga ctatgccaaa 240

catgcagttt caacaagaga ccagagcctt cattcaaagc ttaactaatc agatggggaca 300
catggctaca cagttaaadc aacaacagt 329

<210> 31029
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31029

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tgctttttatc gattaacatg gaccgttcaa aagcataaga tcaacacata actttaccgc 120
ttttgcaaga actatgtagg tctgagttcc tcatcacana tggaggatac gtangagcaa 180
aagccccgct tttgtcgacc accccaagag atcggttaatg gtccaacgcc ttaacgtttc 240
tctcctttca aaaaccaaga gatcggtaat ggtccaacgc cttaacgttt ctcttctttc 300
aaaatcaaaa gatca 315

<210> 31030
<211> 392
<212> DNA
<213> Glycine max

<400> 31030

tagcttgtga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg ttcacaaga 120
ctctcattca tcaaagttac cacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaccttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttatcta cacacacccc tctcataact aagctcacct ccttgagaag 300
cttctttaag aagattccta aagaagctag agcttagcta cacatacctc tcttatagct 360
aagctcacct ccttgagatg agaagctaga gc 392

<210> 31031
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 31031

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 gtttaagaag tgaaaatgag aatggggtaa atttgagca aactctcacc tcacacaagt 120
 ctataacatt aatctaaact tgctcaaact ggttctacac ctaaaattcc accgaatcaa 180
 aatttgactc ctcaacaccc aattttaccc tagaaatgac ccttgttttc actttgggtca 240
 ctcatactcc tcatttgcac agtctaagct ttctcttaag tcctaaatga catttcaaac 300
 taagattaac tcactttaac cccaattac cactgaatcc agatttagcc ttccaactct 360
 caaagcctca ctctttttcc actcataaca ccacattctc actttctaac cct 413

<210> 31032
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 31032

cacttcttat gctcaaagaa gaatcacctc gatcagaaag aactacgcag gtctgatttt 60
 ctcaccccaa ttgaggaata cgtatgagca tagggaaaca cccttgtcga cctcgctaag 120
 agaaactata tacaacgggt ataaaggata taaatacata caacgggaac ataaaaaatc 180
 aaagtcacgt ttgcacattc gattaaaggt tgccgtccct tgcgacggac gtgtgggggtg 240
 ctaatacctt ctccgtgcgt aaatacaact cccgaacctt tcaact 285

<210> 31033
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31033

cggcgccatg accccnattg agtccctgca ttacgtgaca cttaaatact aagcttgggg 60
 agtctcgcgc cccaccacat gatggtggtt ggtgtctgtc ggagcatcgg gctcatggag 120
 gaatcctcct gacgggcaca gcgcggactg gctgctatct gcagccgcct atctactaat 180
 gagccacccc tgcctttact tggcgattct tttttggtct atgaacacgc aactaccaa 240
 tttcctacca gacttgcgaa ctttcataa tgtcaccgta ccttgcggaac taactaatc 300

atcccatatt gacttacaga gggttacgaa accgtcctaa ctgcgaccg aagcacacat 360
 ttgattaccc gtggaccca gtaccatacc gattgtgcag caagataacc gtttgatcta 420
 ctgcacgtac cggaagctca catatagtct tatgaccggc ggcaagaacc tcgcan 476

<210> 31034
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 31034

agcttgtacg ccaaatcgtg actggccata tcccttgacc gatggagaga ttgcacttcc 60
 ttgccctctg atgcattacc ctagtcgagg ggaatttggc gagcgaagac aaatactcag 120
 aagctttgca atgcatgcta cacaagagac gatggaaccc tgggtcatct aggattgtct 180
 gagagcattc aaaggatctt attcgagact acccgatcaa gtactgtgag agggggaaat 240
 gaatagagga gacaatttcc attaccctag tgtagttgta tacaggcaga cgacgaatga 300
 cctacagctc ctgatcacga t 321

<210> 31035
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 31035

gtgagaatgt gtctgaagaa gcacacgatg ttagacgacc ttacatctc tggaatccca 60
 atgcggactc tttcagccac tttccactat tgcatagttc ctacctcaa tatcaacatc 120
 atgactgctt tatcttatgc ttacagcaaa ttgcatctca ccgagaccat tctccaaccg 180
 agaataccca tgtgtatgag attcctccag ccacaatcca tccagagatc tggccctcca 240
 cactgtgcat taagagtgc attatgaact gattgccgac ttccaacggg atgtgtccaa 300
 cgagcctacc tgatgggtga ttacataacc tatgaattaa atatgtctag gctgactacc 360
 tatttggtc cctgtatgac attgtgatgg tgtagttgct aacaaat 407

<210> 31036
 <211> 269
 <212> DNA
 <213> Glycine max

<400> 31036

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gcaccactgc agacgggtgc aaactttaca cattcaaatg tgctaccaat gcaagaccga 120
ttggacgaat cataaacatt tattgaccga tggccgactc ttataacaca cactttttaa 180
gtcatcataa gcgccatccc gaacggggcg acacagtaaa aggctccaca ctgaccgact 240
agcagactaa tacgctacga taccatggg 269

<210> 31037

<211> 377

<212> DNA

<213> Glycine max

<400> 31037

agctttttga actaggatgt gttagatcac ccaataacgc ggccacatac acagcttcta 60
gctattcgta ggacatttca aggcccgat ccacatgtca atgttacacg gtgatgtttt 120
taccataaaa tcaaactca ttgctaacta ttataaatat ggcgagagta acttaaaaca 180
tttattgttg cctcatetta ataccaatct actctcgatt ttgctatata cgtttggatg 240
atgattgttt cctagagatt ttgatgtcta ttcttataga ttttaaattc ctcatatcat 300
attgagaatt ggccttggca tcgtgtgatg tgccccatgc agcagcaact tctgttttac 360
tcatacttct tactata 377

<210> 31038

<211> 601

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31038

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tccttctctcc gcanncntna nntaaannnn nntanannca gcnaccnacg ggacantttg 120
gaaacccttg gtagatttgc agtacgacta gccanancng ngacactata nnaaactcaa 180
gcttggccac tttcatccag aactggtagg ctcanatctt cttctgtcta cctcgacgac 240
gagaaccaga tcctcctcgt catcggagac cacacaagca tgcaagtaaa aggagaatat 300
attetaacaa tagagcacgt acatcgatgc acaactctac actatcacan attatgatag 360

gacgataatg ccggaagagt ctctgcaatg agttatcctt gcaaacgcat acgtacacaa 420
gaattccaca aagttgacac cttaggtgta taacactcaa cactgagtac aagaggacct 480
actcgttacc atgtggggcc tcctatgtta tggaaactcg gtgagcacca cccagagggc 540
gtgccataca cttacaggta accttaccga gcttgcccgg aatgtctgtc ctaggaacgc 600
n 601

<210> 31039
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31039

agcttgtcca caaaaatagg ttnttgaagt ttgtcatttc aatttctcac taagtaaaat 60
ggatcatttt caaggtccaa cgccttaaaa tgatcacttc ttaagtaaaa agaatacact 120
tgataagaaa gaactacgta ggtctgattt tctcatccca attgaggaat acgtaggagc 180
aaagggaaac acccttgtcg accacaaaaa gagaaaaaat ataaaaaggg tataaaggat 240
ataaagacat aaaaagggaa cataaaaaat caaagtcacg tttgcacatt cgattaaagg 300
ttgccgtccc ttgggaacgga cgtgtggagt gctaatacct tccccgtgcg taaatacaac 360
tcccgaacct ttcacttaaa agtt 384

<210> 31040
<211> 366
<212> DNA
<213> Glycine max

<400> 31040

tgccaccag ctcgcccagg cgagcagggg tgcttctctc agaagcaaca gccttctgga 60
ggaatcttcc ggagggccca agtgggcctg gttgctattt gcaccccat ttttactaag 120
tacacccct gccttttttt ggtgattctt ttttggtaaa gttacggaaa cttacgaatt 180
tcgtaacgat acttgttttt tttccataat gttacggaa cttgcggatt acataatcat 240
cccccttttg acttacggaa tgttacgaaa cctcactaat tgtgcaacga tgcttccatt 300
tgatttcggg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360

ggcatg

366

<210> 31041
<211> 381
<212> DNA
<213> Glycine max

<400> 31041

agcttttgtgt ggagcttcaa tggatgaatga gggaggaaga aaagcaacgt gagggagagg 60
gagagagagc ttctgaaaat gtggggctga gtgaggagag agaggggtgc tttttggttt 120
aaataaaagg gttttctctt tttctattat tttatttaag caatgccaca tgtctccatt 180
tgagtggagc aagaagggcc cactttctct ttttgactgt gacccatatt cagtcacaaa 240
agtgagaaaa atctgacctt tgaaacgcta aaatcctgcc tcggtttgcg tgccgtttct 300
ttgattccag tttctcgcgt ttctctgcgt ccgccggggc cagttttcga aagcaagcaa 360
tatatatatc aaaacgctca g 381

<210> 31042
<211> 439
<212> DNA
<213> Glycine max

<400> 31042

tataaaaactc agctttacat ggatgtccga ttcggtgaca taatatatcg agacgctcga 60
aatcgaacaa cggaagctct cgataaattc gaatggatcat aacatttcac tcggatgtcc 120
gattcgggga cataatatat cgagacactc gaaattgaac aacggaagct ctcatgatat 180
tcgaatgctc ataacatttc acacggatgt ccgattcggg gacataactt atctagacgc 240
tcgaaattga acaacggaag ctctcgagaa attcgaatgg tcataagatt tcacacgaat 300
gttcgattcg gggacataat atatcgatac gctcgaaatt gaacaaccga agctctctag 360
aaattcgaat ggtcataaca tttcactcgg atgttcgaat cggggacata atatatcgag 420
acgctcgaaa ttgaacaac 439

<210> 31043
<211> 159
<212> DNA
<213> Glycine max

<400> 31043

ataaacatat atagctcata tatatatctt tctcgcatga ggaacactgg ctctaatacct 60
cacttggcta tcttgaagat cggccccctt tgccatgtct gattgctcta tcaccataac 120
tgccctgctat gaagcccata gtcttcaa at ggactcgaa 159

<210> 31044

<211> 325

<212> DNA

<213> Glycine max

<400> 31044

gatgatactg ctaactctat aattataaat catgcttttg tattctaata tatttcactt 60
cctgtatgct gcgcaaaatc tcattcttac tgggtgtcaag tttcagacct tgcattgatga 120
tgggactgtg gaactatggg atatatccgg tagctttgtg ttttcagaaa atgatgttgg 180
gaaaatcatg gcagcaactt ctgttagtaa ctgcaagagc tcacaatgca gtgggtgtac 240
aaagcttgac tactcagctg actaatgagc acctttcaa ttttcaagta cctacttcct 300
ctgtctaata tcccccttct tttaa 325

<210> 31045

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31045

agctcacatt ttncctttatt ctgnnncttt nggagctgnc aaatgattgg ttgtaatacct 60
tttatgtagt tatgtactat gcataatgcc aaaggacaag tcataactatt cagttttcaa 120
aaggaataac cttaaactgt catcctatat tgcattgngg tgggggtggtt aagtaggaaa 180
gagaaacata ataaatacaa aaatatgata aaggatata atgaaataaa aaatgttaat 240
acacattntt atgtattttt attattgatt aaaatttatt anaacgttag agattctatn 300
tattgttaaa tgtatntaac tcataattct attattntta anaagtttta attaacaata 360
aagaatattt taaaataata tatggatcct tnttcacaat aacaacaatg aaattcanac 420
ttaanatttc atgct 435

<210> 31046
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31046

ttgaaaatat aatatcttga tttctaaaat acccattgtc tctccctctt tgtaaaccatc 60
 aaaaaggcca aagtgcgcaa aacatgaata atttaatcat acacaaagca taattttgtaa 120
 aacaaacata taagattctg atacatacat aaagaaaaac atgaataaaa ccaaattgaa 180
 atgcaaacca cttagtcata taacacacac cataaatatc atgttcagtc atactaagca 240
 aatattaaaa gaaatactaa gttttcaaat gtcataataa tatagccaaa tacacggcta 300
 gaaaacaaaa tactaataat aatagtaatg tctaaactga tagtggtggt ggagggaaat 360
 taatgtagtc acgaatgatg gtgaaatctt cttcaacctt tgtgacctt gagt 414

<210> 31047
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31047

ttacagcaga tactagtagt gaccactaa cctacaatta acatttctga atgtccttaa 60
 cctangggat tagaactaac ttaatggctg aatgatactg aaattgctgg cgaccaaatg 120
 tcacccctt cagcaacctg taggcacct ttggtctccc taaatgctga tgcctacgtt 180
 gccaatgag cccttaatac aacttgaact aatgcccttg tagttgatta acccataaca 240
 tacttttggt cagccaactt ta 262

<210> 31048
 <211> 159
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31048

ctgcaagctg atctgcctct tgtaaaagta tgaccttga attctcggag cttcgttgct 60
 aatttcagcg tctgatatgt gaacnctga atcaacatcc gtgtgaaagt atgaccattg 120

aattctcaaa gcttcttggg caattccaca tctcacata

159

<210> 31049

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31049

tcctcgggtgc catttctctac gaaggcaaac attggaaagt agttttacca agaaatgcta 60
ctcttaaaac aaaaatggca tacaacctnc tncaataaac acaaacatcg atgtaaattt 120
aaaagcaact tatgcacata cttttttacc aacgggtcact tgcaccagac atcttataac 180
taaaaaaaat gcacccatgt acaatcaagg cacctttcgt acctagatta ttcatatgta 240
cttgccaagt gtatntgcta cctacatcac atgcactttc ttgctaaaa tacatacatg 300
catactcaaa gcatttgggg taccaaaaat gcacatgtgc acattccgta tttctaatac 360
ttatgcatat acaaact 377

<210> 31050

<211> 460

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31050

agcttttgtgt tgattttctga ttttcatgca aaatctanat tagtagatga aaaaccagtc 60
tagaagggtga atctaatttc agatcatgtg gtaaaatctg ccataacaac tntggggaca 120
ggagtcaatc ccctttcgaa tactatatca caaattaaag ttgctcaagt aaaaaatgat 180
acataacca agccagtagt tagctctttg agaaaaccat ccatttctac caatttacct 240
tctgacccaa aggttcattc ttatattcct tatgtatcta ccatagttag ttggaactag 300
anaaagagca aattgtcacc agcaatgact actattgatc atgatctaac ataatatata 360
gtagcacagt gtanaacacc aaagaggata tcatgcttgc caccgaggac tacatacatg 420
actcacnaac atttannaat tcagaaacat tgacaataat 460

<210> 31051

<211> 418

<212> DNA

<213> Glycine max

<400> 31051

aatcttatcc aatatatgat atgtgccatg atacgaacca tattactata gtgagatggg 60
agtgactacg atgatatgta caatgggtgg gatagttaca ctgacaataa tggatgatgac 120
actagtagcg atagttacag taacaataat ggtgggtgaca ttagtagtga tgatggctgc 180
gacaacgaca atggtaatga gtgatagcag cgataatggg ggtgtttctt atggcgacaa 240
tgggtgggtgg gatgatgggt gtaatgatgg tggtgacaat agtagtaatg gtgatgggta 300
ggatgggtgac aatgatgacg acaatgatag tgatgagtgg tgagacactg gtgggtgacta 360
tgatggatat gatgggtggag acaattgacg agtgacaatg atgtgatggg gttattat 418

<210> 31052

<211> 344

<212> DNA

<213> Glycine max

<400> 31052

gttgccctatt gctgtctcgg taaaagcact ctcattgtatt cgtaaaccgt tgaatcttct 60
cgaaagtggg ttggaggttc ataagacaga tgtgcacgat ctgaccattg cgatttgcca 120
tatgacttgc ggtgtgtgag acacacttga gtgtttcaag tcttattttc atgtagcctt 180
gaaaaacagc cattcctttc tacttctttc ttgccaaacc cttccccaac atcccaagct 240
tcttctttac caccacaac caccagtagc caccacaaac tgccatagtt ctccattgaa 300
acctcacacc gagaggaacc cttcaatcgg agtggatctt ctaa 344

<210> 31053

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31053

tgccctaagc acaagaaata aaaacatggt acgagactgg ccctgacttt ctcgtgctac 60
tagagtactc atgctgagac agcgcttttt aagccaatga ttgaattacg atggtcacaa 120
tcaattatgc tcacactgtc acacatatgc gattatatgt tgacacaaaa aaatagcatc 180
aattctgcac agcttgcttc ctgaattatg gcaagccata ngagtggcaa cgggcagata 240

aataatagc

249

<210> 31054
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31054

tggaacanat atattgagct cttggtcccc ttagagattg tgtaaatatg tctcctactt 60
tatcattaga actaacgaat tcagtaataa ctctcctaga aagaactttc tcttggacaa 120
aatgacaatc aatctcaata tgtttaattc tctcatggaa tactggatta aaagctatat 180
gtacggctgc ctgattatca cagcatagct tcatttggtg agtatctcca aacttcaatt 240
cttcgaagaa gttgtttaat ccanatgagc tcacaagtgg ctacagccat agctctatat 300
tcagcctctg cactagacct ttgcacaaca ttgtcttctt actctttcat gagacaagaa 360
tttctccaac agacacacaa tatgttgaag tggacgccta tcnatgggtga tcttgccatc 420
tgcttgcaaa tccactatt 439

<210> 31055
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31055

tccgtgcgag atacatttct ttatgaatac attatttcta aaatcccaac agtgagaatg 60
tgcaaaaatg acttccacag gtggtgcccc aatttcatga gaatccaacg gttaacgagt 120
ctacgatcgt aattctacta agacaagttt gggatatatgc ggaaaagaga gaggttttgg 180
gagaagaaga agaaagaatg aacttgcgag gagcananag catagagacg tctcctaaat 240
gtaaaactga cctagtatgt ctctatztat agttagggtg ctcttagcct attatttact 300
ttattatattt ttacaaaaca tacttctatc ttactttttc at 342

<210> 31056
<211> 338
<212> DNA
<213> Glycine max

<400> 31056

taacaagatg agttgccaac agagagagtc aatgaataat tacctatcga aataaatttc 60
cttcttttct ttaaagacga tgatttgtct tcgcacacca caagatgctt ttgctttcaa 120
agagaatctc cataagcctt aatagtcact ctcaaggggc cgctgaaaat tgctaattag 180
atagcattat ttatcaaaat acatgtaatt aactatgagt tacataaatt tctagtcatt 240
taattttttt caacattaat ttctctttct ttatgatccc ttggccatcc caatttttta 300
agggaggatt gctttccaca cctggggaaa aaaaaagg 338

<210> 31057

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31057

agctttaaga taagtgtaag aganaagata gcagcctcaa tgtnggtgaa actggagtcc 60
ttgcatatga cagagtcctt tgcaaactcg ctatgcttaa agcaacaact gtacaccttc 120
aagatgacag aatcaagaat agtcactgag caatcgggcg atttcaatta gatccttgat 180
gatttggaat atatggaagt aaagctggaa gatgaggata aagctctttt gcttttgaat 240
tccttaccac aatcctttga acatttcaag gattcaatta tctatggcaa agatcaagac 300
attaccctan aagaagtcca tgcttcaata aggaccaagg agatgcaaaa acagcaagac 360
tcccaatct 369

<210> 31058

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31058

tgcaacaaca gtaaactctat tnttgtaaca aatgaagtaa ctaactgtca caacctaccc 60
ttcggcgagg gggagacgca tgactcgcggt gtgcgtgttc caagaaagat atacgcgcgg 120
agtcgccacc aacgttcatt taaggaaaat gtcggaaaaa ccgaaaaaga cgtgatctac 180
aaactctaag tgaaagggtc gggagttgta ttacgcacg gtgaagggtat tagcacccca 240

cgcatccgtc acaagagacg gtaacctcta atcaaatgtg caaatatgac ttcaattata 300
 tttatttccc tttctacgtt cttatgtctg tttattcctt ttatgtatta tc 352

<210> 31059
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31059

gacgagatga acattgtgga ccctttgatc acgcgacaca tanataactca gccttgacta 60
 acagagtcgn cncntccttg ttttctntga acttgttcta tatctcacct gtactccctc 120
 tattgccacc gtacttgga caoggtatg ttgcttacta cgatgtggag cttgatcctc 180
 aatatcttcc aatctatccc caggatcggg tgttaacact actcataccc attccaaatc 240
 cctgaaatgt cctgaacctg atgcaacaaa aacacactcc ccatgaatcg aaacccaacg 300
 atcactgcc a cgtgtacat ccgccaat aatgttcttc gtgctgacct ttaactgcaa 360
 tcccacatca caatgtcaac ctgacaattg tgatcttggc tacaaatcat gagccgtcgc 420
 ctgttcaata gaacgacctt cgaacctgac atctatcgag cctatctgaa aactctgcgc 480
 tgcact 486

<210> 31060
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 31060

cttcatcaat ggagtccttt gcttcttgaa gatcaatgac agtggaatgc aaaaggagga 60
 aaggtgattg gagatgccac ttcaaggaga agagagtcaa gaacaagttc accaccatat 120
 gaagccatgg ataagagctt gaaagttgga gaaaatgagt ggagggagag ggagagaatg 180
 ggcacgaaat ttatgcctcg aatgaagtct aaaatttgaa gtgtaatttc tcaaatgatc 240
 aaagtagaaa taatgcacac aaaaagcctc tatttatagc ctaagtgtca catg 294

<210> 31061
 <211> 490
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31061

tatgaaccct gttganaccc ttgttgaaac cattggatan cctctcnana tnggcaccnt 60
tggtggggat cttggtgccg attattgtag aggctttatg acctatctta agatttgaca 120
ctgacgattt cgaattttac tttcctgaac atagcgttgt acatgctgtt tcggcaccaa 180
gacccactgg gataagtcgc tcatgggaca cgggatctaa gtccttttgt taggtctgcc 240
tgagttttac tgectgactc ttttctttca agatattctc ggtcttaatc tagtcaaagt 300
gcctgttacc acatgaactg acccttgagt acacccattg ttatgatatc cccacttgag 360
ctatatacct ggcacacaca cctatatttc ttcattctca tggagaacga gccactgcta 420
cgacatcata atggttagat agactcccat atcggttcaa ctggcatatg cattttctag 480
ccactcttcg 490

<210> 31062

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31062

tgctatttgc acccccatTT ttactaagta cccccccctc tgcttgTTTT tggtgattct 60
tttttcgtaa agttacggaa acttacgaat ttcgtaacga tacttgTTTT ctttccgtaa 120
tgttacggaa ccttgcgat tacataatca tcccctTTTT gacttacgga atgttacgga 180
acctcactta attatgcaac gaatgcttca ttngatttcc ggtgtgtcac ggaaact 237

<210> 31063

<211> 128

<212> DNA

<213> Glycine max

<400> 31063

tgagcttatac tacacacact cttcatataa ctaagctcac ctcttgaga agcgtgcttg 60
agaagaatcc tgaagaagct tgagcttatac tacacacact ccctatctta gctaagctca 120
ccccatgc 128

<210> 31064
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31064

agcnnagant ttcaanttta tntacngaag cagnngagga ancttgggca ttatctttcc 60
 aagtgatata ttctttcttt cctttcttat ctttgaaagg tttcttgtca gaattttcca 120
 tttttcttct aaagatagga caatcaactc tcaggtgcct aggttgatcg cattcatagc 180
 attntggaac tgaggaggaa tcttctccct tcttctttgg attgaggttc aatctcattc 240
 gatttccttt gttcctcaga annatattta atccttttac aaagagactg anatcatcat 300
 cttcttctaa attatttttt tcattcaagt cttctttgcc actttcttca tgaatagaag 360
 atgaggttnt gaatganatt cctttcttct ttcnttcatt ctcttcattg tgggtgagtt 420
 cataag 426

<210> 31065
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31065

tgcatgattt acatctccct ctntctcaag caaattcttc ttgatcatcat caaaatcttc 60
 atgatttatt aaagaatttg aaaataaaga ttttgaatta ttttgtgatg aacatggtat 120
 tgaacataat ttttctgcac caagaactcc tcaacaaaat ggagttgttg agaggaaaaa 180
 taggtcattg gaagaaattg caagaacttt attaaatgat acttctcttn caagtatttt 240
 tgggctgaag ctgtcaatac tgcatgttac atcatgaata gagccttgat aagacctatt 300
 ntaaagaana ccccatatga gttatttaac ggtagaaaac ctaatatttc tcatctacat 360
 gtttttgggt gcaaagtgc tgtacttaat aatggtaaag ataactang aaaattcgat 420
 gcanaatctg at 432

<210> 31066
 <211> 418
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31066

agccttnctg ataccagtta ccacttcacg canagaanac gaaaggaaga agaacgcgac 60
ttangtgagg tcaggggtga ggaaggagac cgaaaccact tcacgcaagc aaaaagaaaa 120
aaaatggtga gggatcacga ggaagaagaa ggccaacgag ggagggaggg aaggagagag 180
atgaaccatt tattttttaa ataaaaaaaa ttaagccagg tgtacaaagg tatttttgcg 240
tcaactgttg agtgcaccaa caaaaatggt ggggtgcact agcagcactc gccagtgtac 300
aaacatgaga ccaacatana ggatatccag ttcacgagtn caacatccaa gttctctttg 360
ttggttccga gtgttatgcc ctagtgccca aaaaactntc caatatctca tatactcc 418

<210> 31067

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31067

catttatctc atccattca acctaaacat ttcataaaag tgaacatcat aatcaaagct 60
tanatattca aactaggaag aaaaattatt caattcaaga ttaagaaaat tctctaggat 120
aaaaatcatt ntatgaagg acatatcana gcaaaacatg agtgcattga ccacaaagtt 180
gaaagaattg acaccataga tttagttatc catattccac aataagttgc ctggttcana 240
aagcacttca agacacaatt agccaaagaa atttaatat ntgttgcaag aataattttt 300
taaataaaag tagctacagt acaagtttat gaacatctat cacaacttat accaagaaat 360
tcttgataat g 371

<210> 31068

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31068

agcttaaggt ttgngattct attatananc acttcatcac ttgcttggtg aagatcatca 60
agccggtgcc atgcaatttc ctgcagggtta cacaatttct cagtattttg ataacctggc 120

agtggcaatc acatatagag taatttacca tgatctttta cataagaaca aagaaaagca 180
 atcatgttga aagttctcag ccacaacaca ctcaactgga ggtgcaagga aaaaacagta 240
 aagaccanat atagatccaa aattcagagt aaaaaagatt caaattagtg gaaactctgg 300
 ttttccttta gtttctctgt nttttgaaat tgacttatca tcccaggatt gtacttttac 360
 attctactct aaagaagata tccatagacta aactactata tangagataa ttaaagataa 420
 ctcttagta 429

<210> 31069
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31069

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 ttagggatca agtgaacaaa gagaaactga aagtggagta ctgctacaca ttgatcaac 120
 ttgctgatat ttttaacaaa cccctcaaag gggagagggt taaaaatgta aggggcataa 180
 ttggcttgat gaacttanga gatcagaata agggagggtg tgagagttaa attnttgttt 240
 gtgtggggta gaattgtttg tgctttgaat ataagagaga gtaacagaat ttttaaattc 300
 ttgtataagt actagcctaa gtgtgagngg ttatttactc tgttttgctt gtataaangg 360
 catacatata tottaataaa gaggatttat tcattctatc attttcagtc tct 413

<210> 31070
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31070

agctntgagt tanaatttga ctaccatan accttgaccc agcgtgagaa tgccaatcct 60
 taccctcgga agcaaaaaaa gaatagaggg gaaatttcca atcacagaan aagagaagga 120
 aaatttccaa tgaaagcaaa aaagacatga aggaaaattc cccaatcata gagtgnagga 180
 aagcaanaa aggataagaa ggaaaattcc ccaatcaaag agtgggagaa agcaaataga 240
 tgagaaagga anattcccaa tcanagaatg ggagaaagta aaaaaggaag aagaagaatg 300

acagaaagct cctgatcaag gatcgaaaga aaccagaaga aatgtgcaga gaggtctttg 360
gaccagacaa tatctgaaca gtacagaatt gtcaccaaat ga 402

<210> 31071
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31071

tgtaaataatt tattggtata atttgcctgt tccattaggc tcttaatgtc tttagagggt 60
acttcctcgt taacatcttt tgtcttgaat ggaattgccca tgacagggtt attggtactg 120
tctttgatat ttggtagtgt atattgtgtt gcgggaagta attccgattg gattaactca 180
ccatccttca cttgcccaatt tgctatgaca ttttgtgttg aatcacctat gatgtcttgt 240
ttccaaggggt aatctatata ctttctgatg gcataagcat gaaaccaatc aaagaanaag 300
acattaattt tgactctttt cgacaaatcg tagaacttgt cttggatttg ttctctg 357

<210> 31072
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31072

cctacttgac taggcgacaa tgggtgaaaca gttctcacag actcagactc gacagggaaat 60
gtgaaagaca atgtggcatt ccagagcagt ccattattac tgtatgatca tgacttcagc 120
ccttacataa tctgagctca tggtttgctc ttgtcactga tgacggagaa gtcaccggac 180
cctaccctta ctgtgtcatg cctttgatta taggattgat gagatacagc agggcctggg 240
taatcacgtc cgattcatgt gctcgagctg gcacagaatc aagatatcag aggtaggctg 300
ccaccgccat tgctgcattg taacctttat tcagttgggc tactgccaag acatgtgccc 360
ttatcaacat tagaacgctg catattcgag attgttctct ctgcaccogt cgaatctggt 420
gacactgaga agactgtgga taan 444

<210> 31073
<211> 444

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31073

aatttggttat caatacctta aactaataac ttatgacatt acaacatgca aagttggaac 60
 gttccaactc atggcaaccg taaaagagca aaaagcaact caaagatgcg ttgattgtca 120
 acagaattaa tggcaaaagc aaatttgagt ttggtagtga ctcttgctt tggcacaat 180
 tttatcagga tagtccttcc aagaaagata tgaatcaggg caatcttatg gtctttttgc 240
 atgattcatc tgtttcgcat aatgaacatc accgtatatt taatgtatat ggagaaatca 300
 aagaggtgag tttggcttac caattgtttg ttgcacaaag attgatctga ataatttatg 360
 tgtggntgac taactgtctt gagtttctgt tcatcaattt ctttggtaca ctttnntgtg 420
 taatctttgc tggaggatga caca 444

<210> 31074
 <211> 303
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31074

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 tcagattcag gcacataata tatcgagacg ctcgaaatta aatagcggaa gctgtcgaga 120
 tattcanatg ctcatctatt ttactcgga ggtccgagtc gagcgcataa tatatcgaga 180
 tgctcgaaat tgaacaacgg aagctctcga gaaattcaca tggtcataac tgttgacacg 240
 gaggtcagct tcacgcgcgt aatatattga gacgctcgat attgaacaac agaagctctc 300
 gag 303

<210> 31075
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31075

tgatgttcat tgcatgcngg cgaatcactc gacccgggat ctgtgagtcg actgaggcat 60

gcaagcttan ctttttagttc tctgcanagg nanccaagcc gnagagaaaa agaagagaga 120
atggaggcac aacnnnactg gcgacgagcg agatacagca gcngacgaac acagnactnc 180
taaaatcccg acagggagaa tgtgcgataa tgactttcaa aggaggtgcc caagtttcac 240
gaaaatccaa cggtcacga gtctacgagc gtaattctac taagacaagt gagcgtatat 300
gcggaacaga gagaggctct gtgagaagat gaacagagat tgaactggga ggagcaaaga 360
gcatacagac gtatcctaaa gggaaaactg agctagtatg tctctatcta gtaggaggag 420
actctgagcc tattatngat gatactatta ctctcacaga atactcctat tatactctgt 480
cgtcaatgna gaacacagta gaacattcat gtatttg 517

<210> 31076
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31076

tatgcatcca atacctgat gaggatgtcc catatgttct taaaactgga ctgattcatt 60
tgcttccaaa gtttcatggc cttgcaagtg aagacccgca caaacatttg aaagaatttc 120
acattgtctg ctcaaccatg aaacccccag atgtccaaga ggatcacata tttctgaagg 180
cttttctca ttcattagag ggagtggcaa aagactggct gtattacctt gctccaaggt 240
ccatcacgag ctgggatgac cttaagagag tattcttaga aaaaattnnt cctgcttcca 300
ggaccacagc catcangaag gatattctcag gtattagaca actcagtgga gagagcctgt 360
atgagtactg ggagagatta agaaactatg t 391

<210> 31077
<211> 363
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31077

aaataagccc tccatcagtg ggaccttaag cttcattgga taatttcttc atttggttat 60
gatgaaaacc ccatggatca atgcatatac cacaaggcca atgagagtaa aatatgtttt 120
cttgtttcat atgtagatga tattntactt gcagtcaata atcagggttt gctaaatgag 180

gtgaaacaat ttctctctaa gaattttgac atgaaggata tgggtgatgt atcttatgtc 240
attgacatta atattcatag agataaacct cgaggatttg taggtctatc acatgaaatc 300
tatattaaca acaattttaga gagatttang atganagaat gctcaccaag tgcgctccc 360
att 363

<210> 31078
<211> 400
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31078

ggacctatga aactcagctt tacatatttn tttcaggaga tagttgtaaa aatatntatg 60
caaaaggtga taattgncca tgtattgcat tgctcttagc tcaacattca tccaatgagg 120
ggtattgtga gaagagtga aaaacgcggt tttgtagatt aaaacaaatg ccattggagc 180
taacgtggaa agacanagaa attaacaatt gcatataaaa aggggggtttc tgggtggtaga 240
caatattgta agagaatagt gttggaggaa aataccttaa tttgaagtaa acatgggtatc 300
caacctgtgg ccaactcgat gcttttttga ggaatgtgct ctgctgctc agctgcaact 360
gtgccttact attactaaca ggtcaatttg atgatggaca 400

<210> 31079
<211> 380
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31079

agctttgaat ttactattca atggagttga caagaacatc ttcagactga tcaacacttg 60
cacagtggcc anagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
gaagatttcc agattgcaac tcttggctac aaaattcgaa catctgaaga tgaaggagga 180
agagtgtatt catgacttcc acatgaacat tcttgacatt gccaatgctt gcaactgcctt 240
gngagagagg ataacagatg aaaagctggt gagaaagatc ctgagatcct tgcctaagag 300
at ttgacatg anagtcactg caatagagga ggcccaagac attngcaaca tgagagtaga 360
tgaactcatt ggttctcttc 380

<210> 31080
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31080

agcttatgag ttatctaatac aagattcttg attgctctta aagttgtaac atgtggctctg 60
 actagtctcc actttctagg taaacttcgt aagattttat caacatgatac ataattatca 120
 taatgtatac ctagagagcg gagctcgttc agaatgattt ggaagtttcc aaacatgggtt 180
 tgaatatctt ctccctcttc catattaaag agttcatact tatgtgtcag aaggctcaac 240
 ttgttacggt ntacgttaga ggacccttcg taggtaatgg ataaggtatc ccacatttgt 300
 ttggcgcttt tgaagttgtg aactttggaa tattcttgcg cgttagttga taagaaatat 360
 agacttatga tcatccatcc atttgtcctt ggggatcttg ttcttctga 409

<210> 31081
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31081

tccttgagag gcttctttga gaagctagag tcttaactat ccacaccct ctaataacta 60
 aactaacctc cttgaaaata aaacatggat aaaataacac aacaaataaa atcaaatac 120
 aattataatt gctaataata tttcaagggtg ttacagcttg tccaaagtag ccttgggcat 180
 gatgttgagg gaagagccat tgtcgataag cactttggcc actatgtggt gatggaagct 240
 tgcttgtgga gcttctatgg aggctggatc tttagacttc aatgaggtcc ttcaatgggtg 300
 attntacacc atggagatgc 320

<210> 31082
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31082

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cttgtggaat attgaannat gaatttttagt anatggtcta atttatatattt ggttcttaat 360
 agaaatttgg tntatgaaga atctttaata aaataataat ttttttttat tcttgacact 420
 tatntctagt tcta 435

<210> 31085
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31085

ttcttccgtc ggtgctcttc tcatggggta ccctagtgtt cttatagcga gcgcgggatt 60
 gtagttaata caaccctcg ttctaccag cggaatgttt gggatctctc cacatgagaa 120
 gaggaccctt tcttttctt ctttccatcg ggggaaccāa ctgatngttc taccttctat 180
 cccggccaag agctgggtccc aatctattct cctcttttca gtacacgagc gatgggtcag 240
 gagccgacat ggatgtcttg ggtcttggtg gaacaagtgc gaaaccaacc atacacagag 300
 ggcgggtaag 310

<210> 31086
 <211> 191
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31086

ggattcattg gcctcttacc tgttcatttt atgtgtggaa ggcctatncg ctatgatcaa 60
 gaaggtggag agtaaaggac aggtgcctgg ttttgggttt gtaggaatgc ctttctatca 120
 gtcattcttg gtttgccgggt gatattctatt ctttgagcat ccaataagga gtgtatgagt 180
 attcaacata t 191

<210> 31087
 <211> 175
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31087

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 tttgagttag ttttaacaac tgagatctan gacattcaca cggatgatggg cccaattctg 120
 tctctaggct tgcgtanaac aatccatggt gtgatgattt tcacgagtat tattt 175

<210> 31088
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31088

gcttgctgat tacattctcc cncctttctca agaaaattct taattcttct tgacatcatc 60
 aaaatcttca tgattttacaa atacaaccca naaataaaat aaaataaaac tggacgacaa 120
 ataaaattgt ttgctctttt caagtccaag ccggttcagc ccaattctgg atccaagccc 180
 aattgcttat aattctcttg aaattaaatt aaaacacaaa attagtcaag taggtccaaa 240
 tgataaaact gcataattaa tttgacaatt aagggttaatc agtaattaa atgggtgacag 300
 aaaggggtaa gaaataggag aaaataatga cacatcaata ggcaacttcc ccccttatgg 360
 tgattagctt gagtctcaag gaagtttcan accgagtggc atgcccccaa gtacaaatat 420
 ttttctcat gaaaaactac ta 442

<210> 31089
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31089

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 tgatatccac tcgacaagggt ttgaagtgga ggagaccttc aatcctataa cgcaacgtgg 120
 cggacaaaaa tgggcagtta actngaattg ccattattgt caacgcggaa ggtatnttgc 180
 gcttcactat ccatgttcac acattattgc agcttgtggt tacgtgagca tgaactacta 240
 ccaatatata gatgttgttt acaccaatga gcacatctta naagcactact ccgcacagtg 300
 gtggcctctt gggaatgaag cggcaattcc tccttctgat gaggcattgga cactaatccc 360
 tgaccaact acaattc 377

<210> 31090
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31090

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 atagcttccc cattggtggc agcaaccacg gtggagcctt tccagtggac cgcggcggct 120
 cagctcgcat ttgacctctt gaagaaagcc ttgttcgaaa ccccggtact tgccttgccg 180
 aatttctagc taccatttac agtcgagacc aatgcttctg ggggtgggcat gggtgcaatc 240
 ctctcttagc agggccacac aattgcatat tttagcaagc cttttttgcc taagcttcaa 300
 cgatcgtcca cttatgtccg agaattgttc gcagtgatgg cggcgggtcaa gaaatgggtg 360
 caatacctcc tcggtaaccg gttcatca 388

<210> 31091
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31091

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 ttgtaaagac aagggtctaa ttataattga aaaaaagaag attgtgttta attaattaat 120
 taccaaaggt gaaggagctg aacattatgc ctaaagaatc agagagctct cggtaactct 180
 tgtacatctt caagtccact ttgcgaaggt aagggtgctcc atccatgcta actttgacaa 240
 agcttgcatt agggctgctg ttctttctgc tctcttctcc aacgctcttt tgcacagcca 300
 acatgttctt ccggaaggac cgcacagggt gccaacccac cacctgcgtc ctacacattt 360
 caactcatca atatcactct atatattatg atcaattaat acgcatcatg aacatatatg 420
 gcaatcatat aacgaagtta aaata 445

<210> 31092
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31092

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ctcctcacat gtcttgtgct aaatgttggt aacacgattc tatagagttt ccaccgatta 120
aacttgctat agaagctaga attgattntc tatggttcaa atttcttggt attgttcttg 180
aaccatgaat tgtgttgagt ttaagttgct ttgagttttg tcttggtatt ttttgtggct 240
gaaacctaaa ccataaaatt cttacaaaat att 273

<210> 31093
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31093

tgatgtcatt caaaacacac tatgtagacc taaatgaaga ctaatcattg tttatttaat 60
tggattcatt atacgatata atttgttgta acccgttact aaccaattaa tattatcaac 120
tactcgtttg gttaagcaag gaaattgttg gtccaacaaa aatcatttac gcgtgcagca 180
tacatcattg tcataattga caacacataa tgacatgcat gtgtattaca gtttgagcgt 240
gacaacacat tggttgactt cagtacacat tntgaaacta gcagtcgctc gacaacacat 300
tggttgactt gactacacat tagcgacaac acat 334

<210> 31094
<211> 520
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31094

catgactatg cgatgcaata ctagccannc actcgaccgc ngatccttna gtcacctgcn 60
gcatgcaagt ttggcttcat tatggagcag agaaactcca ccagtaacn ggggaccacc 120
ncgacaggaa agctctttac catctcgac ccgagcctnc agcttatcta tctcctctgt 180
ggagctatcc aggttcctgg tcaactggct aatcctctcg actcgacaag atagagagtc 240
gaacgcttct ctgcttcttt cgatgggtggg tcggaactcg taaccgcttg caatgatatc 300
aacagcccct ttcaacaact ctcccgagc agctccagcg aacggctctg ccatcactac 360

tcacacacac tgcgaggaat gaaatgaaag ctacagaata atatgtacta ctacacagac 420
acaçcaaacc ggcggttttt tcgttgacga tgactacgct atgatctctg agctcgcgta 480
atcanaacat agaaagacac tgtattctct tcgattaccg 520

<210> 31095
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31095

tatgcgcata tttccttaca aacgttctct tgcacaagac attctattaa ccgaataaaa 60
tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacacgt acttccaagg 120
tgtatttggt acttacatca cacacatctc cttggctaaa ttcacataca tgcatactca 180
aagcattntg ggggacaaaa aattgcacat gtgcacatct tggattttct aataacctata 240
catacacaaa cctcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300
tcttttcaag tttttgctac ctaaggccgc atgcaaattc aagtata 347

<210> 31096
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31096

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gaaatgaata tagcaatgag aaaacctata gaatccaccc ctgtcctgtg tcttatgctg 120
acttgctccc atatctactt gataattcaa tggtagccac aacctctacc aagggttcac 180
aacctttatt tttccgaaaa tacgactcga acgcaacgtg tgcttgtcac ggagaagccc 240
cggtgtgtac cattgagcat tgtanggctc tgaaatgtaa ggtgccaggc catattgatg 300
ct 302

<210> 31097
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31097

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cacatgacac ctacaccttt gcacacatgt tgagatatta agccctatac ccgggtctgt 120
gtgagacata nggagtggag gttgatctat ggtcatgttg ggtcttcgac ttgcttgata 180
acagtgatgc ctcatctaga gttttcttct ttttgctgat gcattgtcac tggtagatcc 240
taccgccaca atgttggttac ctaagaggat gatctctcta gaagccaatg agttacatga 300
taccaccttg ggagttgcac tagaaggagc tttggatcct ttcatangtc ctgaatatga 360
cacatacaac tcactt 376

<210> 31098
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31098

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ctatgggtga gaaacttgcc ccatttgtat ggcttatatt ttcaagggtt ttgctcattt 120
atcagcttct ccaaaggctt gacctcagtt tcatgcgaaa ggtagaagaa tggaatggag 180
aacctttctt tctcagagtt gaccaccact ctgtgttcca cactctcata tgcattcattg 240
ctccaaacct gcacaaacaa ctccaatcct canataaaaa ttctctccac taattacggg 300
aataaatagt tcataaaactc aaagattaga atatgttntt ttttaagggtca tcatgacatt 360
gggtgtgaagt atttataactt ttgttagtga ctaatctctc ctgngaagct gggcagacca 420
ctattagt 428

<210> 31099
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31099

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actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120
 accatacttc ccacgatttc cttgggtatc tatcaggcta gttatgccgc cgttggtttt 180
 gcctaaaccc atccccgggtt cataaccggt ccccaacata actcggggcca tcattaccgc 240
 tgcacgagac agacaaggct gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300
 anaagactgg aaagcagttt ctaacgattc ttctgcggct tccacataag gcatggagga 360
 tgggcagctt accaagatat cttcctcgcc tgacacgatg act 403

<210> 31100
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31100

ctaaaaaatc ctatatttct aggggtaccct acctatatta tggagcccta aatacaaggc 60
 ccaaaaataa tgaaacctta atctaattt tacaaaagat agtgggctcg tacttagccc 120
 atggggccaa aatctaccct aagggtcata aaaaccctag ggccttctct tgcatctctg 180
 gcccaatcta cttggagttt ctatccaatg cccttgcggn gtaagattgc atcattccct 240
 ccccctagaa gaggatttga cctcaaatcc cgaggctctt gaactttggg ctttttttct 300
 cacactatan aagaacaaaa catatgtata gtg 333

<210> 31101
 <211> 156
 <212> DNA
 <213> Glycine max
 <400> 31101

gcagctctat ggtaaagtgt aatgtggtga agggaaattc cggcgtgtta aggtttcagc 60
 attgacggcg acgcagagaa gccgtcaacg tcgtccgaga tcgtgttgga acccatcata 120
 gacttctcgg gtaccatcac attgccaggg tacaag 156

<210> 31102
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 31102

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aagcttctca ttgttaaggt catttgaacc aaaattctca accaactctc ctatngaata 120
aatcaacgt atgcacttca aattttatac aagatattct tcatgtaact tctccaaatg 180
tagattnnta attatgagaa aaacttaatt atttcatctt attttcttct ataagtactt 240
attgaaaagt ttctccgaac atgacaatca ttaacattaa naactgcac ctacctaagt 300
ccatntgcta gcaagatcat ta 322

<210> 31103

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31103

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caaagcatgg aaagagaaag actgagtaga aaagactggg aaagaggcag tagaccctc 120
aaattgttct tccttttttg ctttctcagt atttctcttt aactctaggt gctacagatc 180
tctatttatt gccatactaa accaacaata tggaattaat ctgttttatt tctagtatcc 240
catcaagcac caagtgaaaa aataatacca tccaacata cagttgtact taccacctac 300
accanagtaa tagaacctac acattaaaaa atattaatag tttaaaggat agtatttttt 360
ttct 364

<210> 31104

<211> 316

<212> DNA

<213> Glycine max

<400> 31104

ttgagccaaa atcctaactc accataaacc ttgacccatg gtgatatatg tcaatcctta 60
ccctcaggag caaaaaagaa gagaaggaaa atttccaatc aaagaaaaaa aaaagagaag 120
gacaatttgc tatcaaagag aaagcaaata aaaaaaagag agaaggaaaa tttccaatca 180
aaggataaaa gaaaggaaat gaaattccca atcaaagagt gggagatagc gaacagaaaa 240
gaaagaaaac tccaaccaa agagtgggag aaagtaaaag gaaggaaaga aagctcctga 300

tcaaggatcg aaagaa

316

<210> 31105

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31105

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taccagttat gaaaacaatg cacgaattct aaaatgcaac acttagcaga aagggtcaat 120

tgtaaagttc atatagcaat tcaattctaa tccatatata acgtatttta tatatattca 180

tattcccaa gagtctactt ttcaaata attttatttt catcaaactg tatgtgaatc 240

aaacaaagta aaaaactatg tgaagtatgt caaagttgaa aattgaaaac agcatgtgtg 300

cacaaactnt caacaccaa taatttagaa atgactctaa gagcccatc tcatggagga 360

taacctcca naccanaatn gacattaaag aanatagaaa ctctcaatac cttg 414

<210> 31106

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31106

tggaaccaa catttaagat atgataagat tgtagttta aggtaatgat tgaaattaaa 60

tttaaaaata tattcgattt tatagttata aaaaatattg taacctacat ttaaatttag 120

actattatca gattgctagt gtaagataat gattgaaatc aaatttaaca atatattaca 180

tttggtagtt ataaaaaata ttgaaaccaa aatttaagat ttanaatata tctattaatt 240

catatgttct aattntttta cgagtatggt tttagagnaa aaaattcatt taatttattt 300

acaaaat 307

<210> 31107

<211> 167

<212> DNA

<213> Glycine max

<400> 31107

actgctccat attactgata atcatgggac ccatacccca ccaaggtatc aacctcattc 60
tccgaaatac actcaacgca cgtgtgcttg cttgacaacc ccgggcgttc attgacattg 120
aaggcctaag cgtaagtcag gtcaattgtg cggctgctga attcaga 167

<210> 31108
<211> 296
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31108

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agttttccaa tataatttac attcaaatat ggaagaagta atgggagttg aatttcccat 120
ttgaatgcga tggctggaag gcttccttta ctgggctgca agtttgcacc gaaggaacca 180
ttgcttactg cacctctaaa ttactaccta cacgccacat cattttaaaa caattaaaat 240
tttcnaaagt naccocgacg tgtccttcgc accccattcc ccgtcccatg gatgct 296

<210> 31109
<211> 462
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31109

agcccanncg ttaggcctta attttgggaa caatcncgng nattggcaaa gaagacatca 60
tatgccaaagg gaacaatttc ctctatcac tggaggtata tacctagggt aagagcgagg 120
ttgattcata tttctaaaaa ttgagacaa aagttgacct aatacgcttc tacaatcttg 180
tcaagataag ttgcatcgag gatgatgaag tcgtccctat atacttgtaa ggtctcaata 240
actatatata ccccgaaag aaaactactt ctttgacaaa gacggtgttg cactattaga 300
aattacactt tcaacatcgg ttatttaggg cattctacat cggtctaan accgatgttg 360
aaagtgatga tgttgaatgt atcatcggtt acatcggttt ttaaaaaccg atgttaacat 420
anatatgata acatcggttt tctaaataat cgatgtaa ac 462

<210> 31110
<211> 384

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31110

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 tggtcagcag aagagtacaa accacanact cttgcgacag gtacagattt cggattcaaa 120
 gctagctggg ataccaagtt aaccaatgca tccaagttgc cttcaagctt cttagtctca 180
 gatgatgcag ntgagtttgt agctacctca tgcactctc taatgactat agcatcattt 240
 cttgcgctaa actgctgnga gttggaagcc atctttctcaa tttaaatttct ggcttcagta 300
 ggagtcatgt ctncaagggc tccaccactt gcagcatcta tcatacttct ctccatatta 360
 ctgagtcctt cataaaaata ttgg 384

<210> 31111
 <211> 167
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31111

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 tccttcagaa tttactgttt cttntgcta atatgtaaat ataaattgta taaggctatg 120
 gtgtaaaaac atggtctacc agctcaatat ctatgggtta tgcttct 167

<210> 31112
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31112

 ccttgggcaa tccttaccat acaagacaat tttgtggtgt tgagttagac cctaaacccg 60
 aaatctaaga tggattaga gcctatccta gatacattgt tggggcacca acattgccac 120
 gctccaggcc catagcccta ggcattaggg ggtgtgttgg acagcttctt taattgcagt 180
 cactgctaac ctgctntaat tgcagcagca tatgagagtt ggttgccaat gtctcagaan 240
 aggctaccta tgaagggact gaccagaacg gctgagttaa gcgtcgtagt gtgcaatcaa 300

tgagtctgaa acatcaactc ttaggggggtt gagatccac attaaactaga gataaggcct 360
tagtattgct tataaagttt gggcaattct caccatacaa ttc 403

<210> 31113
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31113

tatcatctcc ctcttcatca tttggggcgc tacttgagct gccagatccc tccatctttg 60
gggtgtattct ttgaaagatt catgctccat cttgcacatg ttttgcagct ggattctatt 120
cggagccata tcagaattgt actgatactg cctaatagaag gcaaccatta ngtcctttcc 180
gagaattgac tcatgaagggt tccagattag tataaccagct gacgggtttcc ccagaaagac 240
tgtcctggaa gaagtacatn ncacaatttt catttttctga g 281

<210> 31114
<211> 251
<212> DNA
<213> Glycine max

<400> 31114

ctgatggcta tgagaagaaa tcacatgttt gtcatcatca aaaaggggga gaatgtgaat 60
gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120
aagattaata ccagattgtt tcaacaaaca aagccttgat tcaagaattc ttcaagatca 180
agccttgctt cacaatgaaa ggtttcaagt cattcaaggc acatgtaatc gattaccaat 240
acatgtaatc g 251

<210> 31115
<211> 257
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31115

tggatccata gtctccacgc cacatctgta aatgaaggan tccaccctag ccaatgagat 60
tgcgaccatc aaggctgac aaaagcaagc acaataatgc tatgctgaga gccttgaagt 120

aacaccctat ccttcacta gggagctggc caagcctcac cctacagcga gtgaaggtag 180
tcaagtcattg aacaaagggc ttacaatccg agccttcatt gtttaccaa caagcctgga 240
cgatgaattt gatatag 257

<210> 31116
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31116

accataagag ccttagatat tngttngatc aaaaagagct taacatgagg cagaggagat 60
ggttagagtt cctttaagat tacgattttg agccttagcta tcatccaggt aaagccaatg 120
tagtagctga tgccttaagt agaanatccc ttcaaattg tgcctttgatg gtttagagact 180
tggatctctt anagcagttt agagacatga gtttggcatg tgagatcacc tctaatagca 240
ttaagttggg tatgttgaga gtcaccagcg aactcttgag cgagattcgc gagggtcaga 300
agtctgaccc attcttgtca actcagttag agtccatagt cgcanggaga gagagtattt 360
ttagagtggc tactgatgga gtcttg 386

<210> 31117
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31117

tgtccatcaa acaactagga acagtatgga gtctaatacaa tcaattcata tttcatntt 60
gcttatccac tttggacttt tctttntgtg gccttttaga gggaaatgca gaaaggattt 120
tcctgtgcac tagtgaagaa agaagcatat tctcaactca actacccaac aaaagggata 180
agagactgtc cgttgagact tgagaagggtt ctttctattg cattnttcct accctgaatt 240
nttctatgat taccacgtta cttttgcctc tttgaagagc ccaagcctgg agagggaaaa 300
tgtcatttaa cttaacccat gccttacatg atangtcaca aaat 344

<210> 31118
<211> 452
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31118

ctttctatatt aatatagngc ngctactggc cttaggtgag gtaattttatt gaaaacacag 60
gtctatcaaa tntatgttta attggatgat atatatatat atatatatat atatatatat 120
atatacatat atatatatac atatatatat atatatatat acatatatct atatatatat 180
atatacacac acacacacac aacctttcat ttccacatat atacaccac agacactctc 240
tctcgagac atatatctct tctgtctctg acacagtgtc tctctcaaac aatacacact 300
tctctcgca gcatccttga gcaactcacc cggcgcatgg agcgcatgaa caaactaata 360
tacgcactgc acacacatta tcatcccacc gtgatacccc gccactacct tgtgagggat 420
cttctctcac tcaacagaca ctgaatacac cg 452

<210> 31119

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31119

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ggcacttgca tagattatcg atttgatatg agttattatc tacaaaagag agttctcttt 120
agtcttgggg ttgtggtggg gacattgctt tgcaatatgc atattcgag ctgtggttgt 180
gtaatagtaa tagcattttt taaagcatct ttaatagcat ttttgtgtaa tagtaatagt 240
ttagttttta aaataaagta ataatcctta gaaaacattn tctattatcg taataaactt 300
ttggtagttt atttaaaatt aaatntatca ttntttacca tgatattatt acatcgatgt 360
ttataaagac cacattatgt atgaatgga 389

<210> 31120

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31120

nttgttttca atgacgagcg tctcgaaatc ctacgggaca ctattggaca tccgagtgaa 60

aagttattgt cgtttgaatt tgtttagagc ttatgttttc aattacgagc gttttgatat 120
cccacgggac acaatcggaa atccgagtta aaagttattg tcgttagaat tttctcatag 180
cttccgtttt caattacgag cgtctcgata tctacggga cacaatcgaa catccgagtc 240
aaaagttatt gtcgtttgaa tttgctcaga gcttcagttt tcaattacga gcgtctggat 300
atattacaag actcaatcag acatccgagt taaaagttat tgcgttnga ctnttcatag 360
agcttctggt ntcaattaga gcgtcttcat atattacgag actata 406

<210> 31121
<211> 243
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31121

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aagcaaatca aacataataa gacaattata gtttctgttt gaataactca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccttgagt tcttaagcaa ttcaagagat tatgtgccac aacaaagaac aattcaccaa 240
aat 243

<210> 31122
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31122

ttatcatttt actanattca aattgncata acatttcact cagatgtctg attcggagac 60
ataatatatc gatatgctag aaattgaaca acggatgcc tcgggaaatt tgaatggtca 120
taacgtttca caccgatgtc cgattcgggg acataatata tcgagatgct cgaaattgaa 180
cagcggaagc tgtccagaaa ttcgaaatggt cctaactttt cacacagaag accgattcgg 240
ggacataata tatcgagacg ctcgaaattg aacaacggaa gctctcgaca aagtcgaatg 300
gtcataactt ttcacacgat gtccgattcg cagacataac tcatctaaac gtcctaaatt 360
gaacaacgga agcaatcgac aaatttgaat ggaataaca 399

<210> 31123
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 31123

tgagatcttt agctcattct aaggcttatg agttattttc gagatattga gtattctctt 60
 gatgtatatg gaggagaaca caagctagtt atttatagag aaaataatta taatcgtctt 120
 taatcaatta aatctacaaa gtaattgatt aattcaacga agtaatcaat tagattatct 180
 ttttaaatcga ttaaagtatt cttaccaaca tctggacata actcaagaac aatgtaattg 240
 attaaatact ccaagtaatc gattaaagtg ttcttattca cttctgaaca cctaagcgag 300
 agagacgtaa tcgattaaat cacttggtaa tcgattaaag tagagactcc tgataaatca 360
 gccactgtct caaacaatgg gtaatcaatt acgagatatt 400

<210> 31124
 <211> 525
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31124

cgattgtatg tanntcaatc gcancaccac ggacccggga ncctctaagn caccagcggc 60
 atgcagcnnn gangtangca ttagttgtag gagaacggag ggaggngaag cnaannnnng 120
 gagcgacaaa ncaggaaacng gccangncan nagnnnngaa accatangcg ggacgaaaga 180
 ctaaagcnga aaaaacactt anggcngaca cgacgaagnc catggagaag ctaagaaaca 240
 ttctgctaac tctgaaggaa cacaatgtca atagttatac gaccattaaa cagatatata 300
 atgcacgaag tgcatttcgt tcgttcataa gaggaagcga tcttganatg caacatctga 360
 tgaagcttct tgaacgtgat cagtatatcc attggcacag aatanaggat ggagacgtgg 420
 ttcgtgatat cttttggtgt caccctgatg cagtgaatgt agtcaacgca tggatttcgg 480
 tattttgata gacaacacct acnaaacaga cctgtacaga ctccg 525

<210> 31125
 <211> 306
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31125

ntgaccattc gaatttcgag agtgcttccg ttgttcaagt tcgagcgtgt cgatatttta 60
tgtccacgaa tcagacatcc gagtgaatg ttatgacat tcgaatntgt cgagagcttc 120
cgttgttcaa tttcgagcgt ctcgatatat tatgtccccg aatcgaacat ctaagtgaaa 180
tgttatcacc attcgaattt ctcgatagct tctgttggtc aatttcgagc gtctagatga 240
gttatgtacc cgattcgaac atccgagtga aatggatga ccattcgaat ttctcgagag 300
cttccg 306

<210> 31126

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31126

agcnngnnc ttttctttat cccatnngaa ctntnngnc tttntcagta agttcatgat 60
cggcctagcc ttctcagcta tccaaggtag aaatcttatc aaagaggcta tgcgtcctgt 120
gagtctttgt atctctttga aagtcttcgg actctctatc tcaatgacga cttgacattt 180
atctagatta gcttgatgc ctctttggga aagcataaaa ccaaaaaatt ntctctctcc 240
aatcccaaga acacattttt agagggttaag tcgtatgtat gtttttggat ttgtgaaatg 300
atctcggcta ggtcctcaac atgggacttg actccatngg atntgaccac tatctcatca 360
acgtacacct ctatatttct acgaatnnta tctttgaaga tcttatccat g 411

<210> 31127

<211> 337

<212> DNA

<213> Glycine max

<400> 31127

tcttcaagaa aagattattc ttggtcttat atgattctat gaagataacc tacaactaaa 60
aatggtttct gacatgggtc tgtaaagatg aaatttttga aaatggacaa gcaatgacta 120
tcgaacacga aagtaaactc ctgctttact ttttttattt gttatttgct tatttatttc 180

tcaatttaga aataactcaa tggacaaaat aatttataaa aataacatat tagccaatga 240
 cctacattca atttaaataa atgggtcatga ttctttactg tcagtgactt ataaccaag 300
 ttaacaaaag ggtctattga cataatactt gtagttt 337

<210> 31128
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31128

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 ttagagctta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttga gtggtgccct cgctggaaag 180
 agtgattctt tccttcctat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg ccataatta tctcgtggcc ataactccca ttntatgcac tcaaattaag 300
 tgattcttga gcctaaattg actntcanaa cgagaccttt cacctcgntc tgaaatcacc 360
 tcatnnggag ccctgtagct tcagttattg ccatgtctat atttctgtcc agccaccact 420
 taacctacat gttaccatcc cattcatcca ttttat 456

<210> 31129
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 31129

gcttatgaat ccatcatact cttttccaca ttatctataa gttcctcttt caaaccatt 60
 ccgaaacaca ccagtatagt agacgcggag ttttatttga gcaactgagt cttttacaag 120
 ctcccgttgc ttctgtgtt agaaaactaa ctttaagagt attcaccaa aaaaaaata 180
 aacaaacttt aagagtcata agttgcttat ggaaatatac atcctgtttt agccgttaaa 240
 aatacatgct tcgacggatc aataaattta atggtaaagc accacaattc tgtgattgat 300
 gtgggtctttt ttacgcagca agaataaaag taccttaacc attaaatcag att 353

<210> 31130
 <211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31130

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agctnctant ttttngtttc anaacttngg nnnntctgca agnnggaaat tctgcagaaa 60
acaaaatggt ggatcaagtg gnctcagaat aattaagaaa gggggggtga attaattatt 120
aatgtgtcct tactaattaa aaatttaacc ttcttaatgt tactagattc aattangctt 180
ttactactaa gttaagaaag taaagaacag aaataaaaac ttaacccaaa gtaaaagcga 240
taattaaaag tacatagcag aaattaaaga gtgtanggaa gaagaagaca aacacaagaa 300
ttatactggt tcggccacaa accgtgccta catccaatcc ncaagcaacc tgctgttctt 360
gagaattctt ttaaccttgt anaatccttt acaagccaa 399
```

<210> 31131
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31131

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tgacaaacaa agctaatcga agcaagcaag aaataaaaatc aattattggc acaaatcaa 60
ttgtgcaaaa ggcatttgaa atggtaacat cttttaatat tttatattca ttntcttata 120
agttatataa taataactca tttttttatt ntgttathtt ttatatgata tatgaaagtt 180
tggtgaaatt tatataaaga catcatacat tagattatat tatttaattt gtcttttact 240
atatttaatt ntaatagaaa gaagattcaa aatctggtga atggccagat gctatggaaa 300
gttggaaggt cacgcacatg agatctaatt gaacttggtg cattccaaaa ggagaagaaa 360
tcatggtaaa gaaaaaatc atttaaagtc ttgatgtcaa tattagaatt aaagacatta 420
atggtattat gatatcatat ct 442
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<210> 31132
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31132

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 cgtcctttgt cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggggc 120
 actgcgcccc caaatgcgca agtaagaaga gataattttc cgagctctcg tgtccgtaaa 180
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacatatcct 240
 gcatttgtcc gttatcatat tccggcctca ctttttgcac gagtcattggc atcatcatgc 300
 atatgcgttc aacaaacttt ntgatctgca aaattgcata ccatttgttt tcatgtttgc 360
 tcaccttgc gttntcctct acaaaacana nacaaaaaag ggggaagcgt gaaacttcac 420
 actacattct tagttcca 438

<210> 31133
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31133

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 attgcctccc ttgccagta ttatgatcag ccgttgagggt gttcacctt tggggacttc 120
 cagctatcac ctatggtaga agaatttgaa gagatcctag gatgcctct agggggaagg 180
 aaaccatacc tcttctcagg gttctatccc tcattagcta gaatttccaa gatagtccaa 240
 atctcggcgc aggaattaga ccacaggaag caagtcgaaa attgggtggt tgggaatactg 300
 agaaaatatt tggaggcaaa agcaagaatc tcggcaggta aaggcgagtg ggccccattc 360
 atagatattc tcgcattggt gatc 384

<210> 31134
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 31134

atctactggc ttagcgagcc atcccgttag cgcaaacactg ctgggcttag cgccaggaag 60
 actctggaag aagatgagct gtacagggtc gctaaacgca ccggttcac tcactaagcg 120
 caccacttca gttaatccgc taagcgagaa aggcacgcta agcccaacat cactaacgtg 180
 tgctaagcgg tccatacgtg cgctaagcgc atgagcacga a 221

<210> 31135
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31135

ggtacctgga gatatgtcgc gggggtcaag agaccttggg gacgtcaggt ggggtgctat 60
 tgcccaaaac caagcttgac caatcccaac ccaaccggg catagtccagt caatgagaac 120
 ctatgatgta cctaaacagg cgagctcctg gcagtcaact gataaaagga acaaagaacc 180
 acanagcagg agacttgtgt ggtggctggc cagctgtgaa ctatgattga tatatgggat 240
 atgggctctg gtaatcgatt ac 262

<210> 31136
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 31136

taccagctg gccttgaatc agatatccgt gcctatcgca aaggtttgtg ggttgctc 60
 ctttggtgac caccatacag acctttgccc ttccatgcag caacctggag caattgagca 120
 gcctgaaact tatgctgcaa atatttacia taaacctcct caacctcatc agcaaaatca 180
 accatagcag aacaattatg acctcttcag caacagatat aaccttgat ggaggaatca 240
 ccctaacc 248

<210> 31137
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 31137

tgccaccag ctgcccagg cgagcaaggt tgcttctcc agaagcaaca gccttctgga 60
 ggaatcttct ggagggccca agtgggcctg gttgctattt gcaccttat tttactaaa 120
 tacacccct gccttttttt tgggtattct ttttcgtaa agttacggaa acttatgaat 180
 ttcgtaacga tacttgtttt ctttccgtaa tgttacggaa ccttgcgat tacataatca 240

tccctttttt gacttacgga atgttacgga acctcactaa ttgtgcaacg atgcttcctt 300
 ttgatttccg gtgtgtcacg gaacctta 328

<210> 31138
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31138

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 gataagatct agatgaaata atatctagat gagatcaaat ctagataaga taagataaga 120
 taagatctag atgaaataat atctagatga gatcaaatct aaataatatc tagatgagat 180
 aaaatctaga taagataaga tctgatagaa taaaattgtc tgctcttttc aagtccaagc 240
 ccaattccgg attcaagccc aattgcttat aattctcctg aaattaaatc anaaacacaa 300
 aattagtcca gtaggtccaa ttgataaaac tgcattattan attgacaatt aagcctaatt 360
 agtaattaaa atgatgacaa aaaggggttaa gaaatatgag aaaatgatga cacatcanat 420
 cccctcacac tta 433

<210> 31139
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 31139

tatagcttac tgattatcca caaaaagctt cactgcatca ctatccttga ttcttaattc 60
 ttgtaataat gtgtccaacg agacagctag gcaagcactc attgtagctg gaacatactt 120
 agcttcacat gttgataaag ccactatgga ttgcttctta gaactccatg atattggtgt 180
 tgcaccatac atgaatatgt aacctataga actctttctg tcattctctgt ctctctccca 240
 atccgcatca atatatccca ctaattcctc tgagctgatg ctgtctatat ttgg 294

<210> 31140
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 31140
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 ttaagaatac ggggtgtcttc caaatacaca tttttaaaaa gaataatttta ttaaatacac 120
 taacgaaaat tatattttta caaattataa tttgaatata ttttaaaacc attcaaagcg 180
 ctgcacagta attgctcgag aaccttcacg ggccatcaag aaacctcatt gggaaatcga 240
 tgttaccctt gatagcaaga aagtgaagaa actaatttct tttagaattt tttattttatt 300
 gaaaaccata caaaccacat taccgccttc ctttctaagt agcatacgtg aagcaccgtg 360
 tgccacataa ctctggngtc tctactcact ctcttggtgc tttgagttta atcaattctc 420
 acttttagtt cctttcnmca ataattat 448

<210> 31141
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31141

tatataatga tgattatagg tgggtgtttg atgccagata catctggtgc aagagttcat 60
 tttatgtatc ttctttttatt atcaaattta actgaggcaa gtcattatag ttaggggtgta 120
 gcagtattag catccctttt ttgagctcta gatcgggcta taaagccaga ccaaacagaa 180
 atcgggtggat gtttgttggt gctacagtca tgagcgtggg accgaattga atgtattacc 240
 ccaaagatag atcacctatc catggaagaa gcacaagaag gactcanatt tcctcttgca 300
 cgaaggtggt ctctgccaag gaccggacca aatattccca ccaattcagt gagattgata 360
 cgcacatat ttgataaact acatattaat gagggtcatt nnttaatttc atgaataact 420
 a 421

<210> 31142
 <211> 273
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31142

atcttctcaa ggaaacctgg attacctttt ctttctcggg ctcttcagca ttgctcaaag 60

aacctttctga tactttcccc ttttgtgatt gtaacataac catcntctac aattaacctg 120
 caatgtacac actggtgacc cttcaacgaa tgagctntaa cagaaagttc agtacagcgt 180
 ccatctaate tccaagctcg gagggtaaca aaacatgcac tcanaccacc aagatccang 240
 ccactggctc gaacacatnc attcaatcca aca 273

<210> 31143
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31143

ttagctttga ncttatcagn caagtgtatg gaccatgtcg tagccaaagt gctcatcggt 60
 aatggttcca agttaaactg gatgcctaag agcactttgg agaaattacc attcaatgct 120
 tcccacttaa agccgagttc aatgggtggtt cgtgcctttg acggcaccgc cggagaggta 180
 ggggagagat cgatctocca gtacagatag gccctcacac ctgtcaagtc accttccana 240
 taatggatat taaccccccc ctacagctgt ctgttggggc gcccggtggat ccaactcagt 300
 ggagttgttc cctcaacact ccaccaaag 330

<210> 31144
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31144

tgccaagaca atgcacacgt tctctntttt catgtccttt gacttttgaa tatatatcat 60
 ttgtctaatt agtagaatct tgggtgctnt gtaaattttg cgaactctct gcttcaacca 120
 ttttcttttt tagttcatcc tacataaata catcttataa attattatca tacatcaata 180
 toctgaatac ttcaatatca ctaaacaata ctcacttcca tattagttac tccccctcac 240
 cccataacct tctattagag aattgagcac aacaaagaaa agtattgaa ataaaaatta 300
 caattcttac aattacaata gcagcctttt cagtaacaat gctttcatct tttcgagttc 360
 gagtgtcaat ataaa 375

<210> 31145

<211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31145

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caagcttgat cttttattct atatctgaca gccaatgggt gagtcccgtc caggtagtcc 60
cgaagaanac cggcctcatc atgataaaaa atgagaagga ggagctgatt cctattcggg 120
tgcagaacag gtagagagtc tgcattgact ataggagggt gaaccagggt accaaaaagg 180
accattttcc cctgccattc attgaccaga tgcttgaatg cctggcaggt aaatctcact 240
actgtttcct tgatggttnt tctggctata tgcaaatac tattactcct gaggatcacg 300
acaacaccac attcaccagc cccttcggaa ctttggccta tagaaggatg cctttcggcc 360
tgtgcaatgc ccctggtacc ttcaagcgga gcatgattag tattttcagt gattttgtag 420
acnattcata gaggtgttat ggatgatntc actgatatgt g 461
  
```

<210> 31146
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31146

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tgtcgacctt gctctagcct ctggagaaat ttttgaagga gaatgtttca agtacataaa 60
ggaatgttnt gaaaatggca cattgcatct cattgggcta ctgagtgatg gtggagttca 120
ctccagactt gatcagttgc aggtgattat ttgggggttg agctgttttt cttcatgtg 180
tattcagttt attctttcta actaactact tttgtacagt tgttgcttaa aggagttagt 240
gagcgagggtg ttaaaagagt ccgtgtccat attcttacag atggccgtga tggtctggat 300
ggctcaagtg tggggtttgt ggaaaccctt tgaaaatgat cttgcaaact cgcgcgcana 360
aggtgtcgat gctaggatag catcacgtgg aggtcgatg aatgtcacia tggatcg 417
  
```

<210> 31147
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31147

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gatggcgga ggtttgtaag tggttgaaac aggcatgagt atttcgtaag taactcagaa 120
atctcgggta agatgggtgg tgttgtagct gattgtgtgt ttgtttccac tctaataatgg 180
aagaaggtgc tagaggggct cctatgtaga agacgacgca gttgcgaggg agacacgggt 240
tcacctatct gctcacgttc cccctgtaac tccacaagct taccctcagt gatgaatttc 300
atggatggag acgtgtagtc tgtcagaacc ggtcctaata ttntgagcca ttcgactccc 360
agaactacat ctgtgccaca taagggtagg atgtgaaagt ccaccatgaa cgtatgctcc 420
tgcacctgt 429

<210> 31148
<211> 243
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31148

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acagggaaaag tattagcacc ccacgcgtcc gtcacaagag acgacaacct ttaatcaaat 120
gtgcaaatat gacatcnaat tatattcntt tcccttttta cggctttaat gtctttttat 180
gcctttntta tgttttatct ttttgtggtc gacaaggggtg tttccctttg cttctacgta 240
ttc 243

<210> 31149
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31149

agcttggaga ttatgcttct atgtatgana agaaagaggg agagaaagag agaggngggg 60
gcacgacatc gaaggaagaa naaggagagag aagntgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac acatgcttct atttatagac taggtagctt cctttagaag 180
ctgtcttgag aaaacttcct tgagaagctt ctttgagaaa acttccttga gaagctagag 240
cttagctaca catacccctc tcataactaa gctcacgtac ttgagaagct tccttaagaa 300

gattcctaaa gaagctaaag cttagctaca cacacctctc taatagctaa gttcacctcc 360
 ttgagatgag aagctagagc ttagctacac acccncatata atagctaagc tcaccncat 420
 gacannaaaa catgaanata caaaanaaaa aagtccttac taca 464

<210> 31150
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31150

tgagactnta agcagtgccct gtgattagaa tttcattnta atactttgga gtacgaaaat 60
 tcaaaaactt tataaaaaaa aaaaaaaaaa aaaaagtagc atgcagtgct acaacaaaag 120
 cacaggcaca tatgggaaaa taaatgaagt gacgtacaat taagtccttg aaagaaagaa 180
 agaaagaaaa aaaaactagt ggaagctcaa taatggagga agagaaagtg tggagcagag 240
 aaagaaacag aggtgtgtgt ggcttcttgt ggagaaggaa gaagaggaag gaggagcagg 300
 tcaatgtcaa tgtgattnta taaagctaga aaatgaatat aatacaataa ttccttacgt 360
 aagagttttt aaatgtatat tggcattaat atacttga 398

<210> 31151
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31151

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 cacaacaagt tttccacatc cacaatgcgc gcataaaccc accatcccct gttgccacc 120
 tccaactgag ctcacgtact cccacgtagc ccatatcctc gtttctctca acaccgggtc 180
 cccatcaatc ctcccaagct tcccacat caaagtaata caacattcaa acagcacana 240
 ctatcacagc caagaaaaca gagcanaggc agannactct gccaaaacac caaccanaat 300
 cacagctttt ctacttaaa gacccagta acaattcctt cgttccaatt cgttaaccgt 360
 tggatcgaac tccaaatttt actggaagtc tctagtacat aagcctacat tntgaaccgt 420
 gggatctact agcanacatc cagaactcat tct 453

<210> 31152
 <211> 186
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31152

gcatctgtgc ggtatttcac accgcatatg gtgcactctc agtacaatct gctctgatgc 60
 cgcatagtta agccagcccc gacaccgcc aacaccgct gacgcgaacc ccttgcggnn 120
 cgatngaata taacttcnnn atatgcatgc tatacgaacg cattaccgat gagccctgac 180
 ttcccg 186

<210> 31153
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31153

agctaggctt ttgctattgc tgaagagacc agnattcaga ctttgctttg tgaattacag 60
 gtcacacaca ctacaccgct gttttttgtg acaacatgag cacagttgcc ttagctcaca 120
 acccagttct gcattccaga accaagcaca tggacctgga cttgtctttt gtcggagaaa 180
 aagttctgga gaagagaatt caagtgggtc atgttcctac tattgaatat tgatcaatat 240
 gcagacattc actaaatctc ttaccccatc taattntact ctgtttaggg acaagctcag 300
 agtggttaaca aagattttgt caaccctca agagcttgcc aggggtatta gagtagaaga 360
 gtagaattac tcctttcttt tatttcagtc tagcatagtt agcctttata gnntaactca 420
 actagtgaca gttgtaataa cag 443

<210> 31154
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31154

tgtttacacc taaatacaat catggtattn atactataaa ttaagattat attctaacat 60

tggaaaattt ttacataatt atctaatacat aattggaaaa tttttacata attatctaatt 120
 cataattgga aaaattctac ataattatct agtcataatt cattatatat agcataaatt 180
 ttttgacttt taaaataatt taaacagtta ttttaattata taattaaatg ataataataa 240
 aatatttcac attgtatcag cattaacctc ctgcttcggt cttttgtgta caacatggag 300
 tctttaattt tccatcgatt atgcggctga tacttttgcca cacataaatg tataagaaat 360
 atctttcaga tgttgactag tagttgattc attattttac ggggtccagat tattctgaac 420
 atccattcca ctggtgcaat g 441

<210> 31155
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 31155
 acaacgagat gatgcgctcc atgagagggg ggatcaaag gagaatagag atcataatga 60
 agaagaaagg aggagaagag ggaatgatgg tgttcctaga caaaaccgaa ttgatggat 120
 taaactcaac attcctccat ttaaaggaaa gaatgatccg gaggcctact tggagaggga 180
 gatgaaaata gagcatgttt tctcatgcaa caactatgag gaggaccaa aggtgaagct 240
 tgccgccacg gagttttccg actatgctct tgtgtg 276

<210> 31156
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31156
 attgagtttt ctatgccatc ccttaatgaa atatttatga tgcggtaaa gaaatgttcg 60
 atcggcgatc tgcggtgatg cttctttttt agacctcgat cggatcatctt tcttggcgga 120
 cgtcgactgg cacttttttc aatcaatatc ggtagaaaat atttttttgc cgagatgggc 180
 taattgtttc gtgggtgaat aaatggaaac atgccagttt tggccgacac aaaaacgtgg 240
 ttgggctcgc acanaaaaac ctaggcgacc tacattgtac attttttatg 290

<210> 31157
 <211> 536

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31157

nggcaccgtg gatgatgcan tttgcaatac nggcgaangc agctcggacc cgggatactc 60
tacagtcgac tgcaggctgc aggttgatgg tantggtgag agacaanggc atggacatgg 120
cgaaactaag tgagctccgc caattgcaca ctactgcag acttcacgaa cctanagtgc 180
cactccagaa caagactcac gtatacttgt ggtgcttacc tatctaccct agtgcacagn 240
caaccacatt gtggatcctt tgcaacggta tcacttaaac aacattggaa tgggtgatga 300
agacacttga tgataatcaa ctgatttaac tggaaacctag tgtaaaacta tgcacacat 360
taactaatat aagttatcta tgcgatggct gataagataa tcagctataa cggctcaa 420
ctatatactg tatatatata tactatatac atatgaccgg ctaatnttgg gtgataatgt 480
gtangacaac atggacatgg taattcacgt gcggatctct cacactcagt tatacn 536

<210> 31158
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31158

cacacacacc acttttntaa attatctgtg actaatatct acataatcct acaantaann 60
nnaaaagccg atgagcatgt gaaccatgga tnacacaact aagataccta acccgacaat 120
aagagacagt caagacgtgt atttttcacc aactatatgc acacgcatag gattacaaga 180
gcacaacatt aaaaactaca tcatgggaca caaaaatgcg acatcacaca ctgaagtacc 240
tttacattcc agccaaaact aactacctgc atgaaaagaa gagtacgaca cgcacaagga 300
gcacccccat cattgcagga aaacgacggc gaaacacaca ctgagctatg atacacctgg 360
ggagatgaga gcacgagaga aacaacagat aactcactaa gttatgatgt gagggaacaa 420
tactcagcat attacaagat gtcaaaacag agagagcaag gatatgactc cctctacccg 480
aaaatatggc gggcaaaagg ccataggcct actcacaacc gacaccccc 529

<210> 31159
<211> 439

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31159

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agcttgngtg tcntgtttat aacttcacaa gagatatttg aaaaaggat tacaaccatt 60
tctctatctc tttctcttat ttntatatcc ttatgttttc atatgataag aagaanaata 120
aattgaatta agaaaaaaaa ttgatcataa tgatttatcc ctttaggtat aatacaatac 180
caaaattgaa atatttatag catattaggt ctacaatttt tattcttaca atcttaaaaa 240
ataatcattc tcattatgta tgtcttccta gatccaatat gcaataaata tatcaatttt 300
agccttccac catatctaaa ggaataaacc atntaataat aatgactatg caattatatg 360
tgaatgataa aattagtttg tgggtacata atcacttata naaatcatat anttttatat 420
ttaaatttaa cctataaat 439
```

<210> 31160
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31160

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tccattntcc tttctacttt gaatgagtaa ttcttaagtt tcatacatca tcagggtccat 60
ccttatattt ttttttctt ctaattatta aataaaaaata ttgttttctt gaagtctctt 120
ccttccatgt aataatgaaa ccgtaagatg accaaattaa ttntacttgc tagttatttg 180
aagaaccaac gtcgcacgcc aaaagtcaaa acctacaacc catctgtcat cccgattcat 240
tactctcgga attacttcag ggtcatttca ttgttatctc ttcttctttt tcacaccctc 300
atttaagatt taaaacacct aanataccct tctttctctt taagaattaa aatcttctct 360
cctactcatg tccatg 376
```

<210> 31161
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31161

gctttcatct agtgtttatc agagcacaag agcttcaagt aggtgtcct tanacctcca 60
 ttaattnttt tctttacctt ctcttccatt gttgtttctt catttttctc catgtatctc 120
 ctcacatgtc ttgtgctaaa ttttggttaac atgattcttt agagtttcca ccgattaaac 180
 ttgctataga agctagattt gattntctat tgttcaaatt tcttgttctt gttcttgaac 240
 catgaattgt gttgactnta ngttcctttg agttttgtct tgttattttt tgtggctgat 300
 acctaaacca tanaattctt acaaaaaat taaattagaa gaaaacctan aaaatctaga 360
 gtgacttggt cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgtc 420
 acataagatt tctta 435

<210> 31162
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31162

tgttgccatt gaactcatgt gctacaacca agccatgttt gggtttgcac cctatgggcc 60
 ttattggcgc caactaaaaa agattgtaaa cttagaaatc ctctccaatc gccgagtaga 120
 gcaactacag cacgttcatg tctcagaagt tcaaagttca atcaaagagc tcttcaatgt 180
 ttgggtcaagc aaaaagaatg agtctggcta tgcgttggtg gagttgaatc aatgggtntc 240
 tcatttgaca ttcaacacgg ttcttcgagt ggtcgttgga aagcgacttt tcngtgctac 300
 aactatgaat gatg 314

<210> 31163
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31163

agcttgagct aaatttgact accatnacct tgaccaggtg agaatgccaa tcttcctcgc 60
 gaagcaaaaa aaaaaaaga agagaggaaa atttccaatc aaaggaaaaa ggagaaagaa 120
 aatttccaat caaagaggaa gcaaaaaaag gagagaagga nnaatttcaa tcaaaggaaa 180
 aaagagagga aaggaaattc ccaatcaaag agtgggagaa agcaaaaaa aaagaaagaa 240

aaattcccaa tcaaagaatg ggagaaagaa aaaaagaaga aagctcctgg tcaaagaaac 300
 cagaagatat gtgccgagag gtccttggac cagacgatat ccgaacaata cagaattgtc 360
 accaaatgaa caaaagaaag aaagggaaac catgacctan aagtgggtctt ctccctttat 420
 taccaaccaa aatcctgtgt gct 443

<210> 31164
 <211> 300
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31164

gtgaagtgaa gaatatttat tactgagaaa cttaagtgtt cattatagtg gaatcttctt 60
 tcctaataat ttttttttct ataacgctgt atcttagtta aatgatcaaa gtttaattct 120
 acttcaacta atctaaatgt ggtaataacg tccttttggc tgcattgcctt gttatatagg 180
 gggaaactat ctaanatgaa acttaatctt attanggagg tatttttcagc anaatccaaa 240
 ctcatattcta ctttatctta ttgcttatgt tncagggcac accactggat tctatactca 300

<210> 31165
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31165

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 gtacgttgag cattttctcca ttgtccaagc atatactata tgaactatga aatcagttct 120
 atatgtggag ataataaaat gacatgactt ttaatgtatt ttacagtga tgaataaatc 180
 attcatatta attatgtaga agctagaaag gataaaatga tacactntct tcttcttct 240
 ttctctttta atttaaacaa ctaanagaat tatcattntt tttattttca ttntctttnt 300
 tatccaaaca tgacatagaa tggtttagtt agaanaatat tagcaaaaca canacagcgg 360
 ngctgaagtg aattagttaa gggctctttn tagtccaagg accggcgctg atgcatggaa 420
 tatgaaaata tatatataaa acgaattatg ataaaac 457

<210> 31166

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31166

agcttgtcca ttaaaatatg tntttgaagt tagtcatttc aatttctgac taagtaaaat 60
 ggatcatttt taagggtccaa cgccttgaaa tgatcacctc ttaagtaaaa aaaaaaatca 120
 cttgataagc tagaactacg taggtctgat ttcttcatcg caattgagga tacgtaggag 180
 caaaagcccc gcttttgtcg accaccccgga gagatcgta atgggtccaac gccttaacgt 240
 ttctctcctt tcaaaatcaa aagatcattt aatgggtccaa caccttanat gacctttntg 300
 ttcaatcaaa atatatcttg caaaaagata aaaaacaact taaccaaaca ctntgttccg 360
 aaagaactac gtangtcttg attcctcatc gc 392

<210> 31167
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31167

ttctaaatga taggctcaga atgcagaaga agtagcaatc aatttaataa tgttctttat 60
 acatgcaaga caaaattgat tgcaataata aatgagataa gggaagagag aaatataaac 120
 tcgatttata ctgggttcggc cactccccgt gcctacgtct agttctcaag caaccactt 180
 gagattntcc tttctctttg taaaaccctt ttacaaagtt tgaaccacac agggacaacc 240
 catcccttgt gttcagaaat tcttacaact taagagaccc tcagtctctt aatcaatctc 300
 tttgattaag aagaagaaga agaagaattc tctcttttaa gagaaagata atacaatgaa 360
 gttccataaa ctcttaatag atttg 385

<210> 31168
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 31168

tctgttctca attacgaacg tctcgatata ttacgggaca caatcggaca cccgaggttaa 60

aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120
 attacgggac tcaatcggac atccgagtaa aaagttattg tcgtctgaat ttgctcaaag 180
 cttctgtttt caattacgag cgtcctgata tattacgtga ctcaatcggga catccgagtc 240
 aaaagttatt gtcggttgaa tttgctcaga gcttctgttt tcaattacga gcgtctccat 300
 gtattacgag actcaatcgg acatccgagt aaaaatta 338

<210> 31169
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31169

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 ctccagcgtg gaatagctaa cactaaagcc atgagctcct tttcatacgc agattttgat 120
 aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180
 acagcaccaa ttctctctcc cgccgcatca cattccactt caaacagaat agagaaatca 240
 ggtaacacta gtactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300
 gcatcttttc cccaaataaa gttattcttc ttagtcattt cagtcaacgg gttagcaatt 360
 gtaccataat cctttgataa tttctgtata accc 394

<210> 31170
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31170

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 ctttctcaag gtgaaccacg taatcctgtg tgtgttcttt ctcatctctt tctctttcaa 120
 ttctgatgca atttgtgtgt atgataattt tggtatgctg catctattgc tgctgttctt 180
 gcttggttctt catcacttcc ataatagcct tggctatcga tgtaggcacc ttgggcaccc 240
 gtgagggccg tatgaactgc taacgttccc tttntactca ttatttattt cttntattg 300
 gtaatttatt caaatgttct catcgtcac tttctccttt cgctatgttn ttttctttt 360

ggccaactat ggcgaaactg catcgtgtcg ccgtgttgtc gccaccatct tcgcgatcgt 420

<210> 31171

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31171

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ttcaaggaag tctacgttac attaactttg attatatact aacttgattg gttatgtcat 120
gtttgtttta taagatttga tgcccaagtt ttctgaagtt gttgaaaatg attcacaatg 180
tggtgaaaaa agaagcaact aatttatcaa aggattntga agagttaacc cctactaaac 240
acaatttcag ttgctattca gctatgggag aattgactcc taatgaaagt tagtctgcaa 300
cccanaataa ggataaatga tcttttgctc aataattctg gagatttgat tcccgttggg 360
actgtatttg gaactcanat acattcacag cccgaanaca ttgaagggtgc atataagcaa 420
ctgggtggat gtttgataat gtcanaacta at 452

<210> 31172

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31172

ccaaacgcac ccttcttcaa acattcgggtc gtaggacttg ctataacgct aacattctgg 60
ataaagcggc gattacatga tgcaagacca aggaaagatc tcacgctacg aactggtaga 120
aggctcggcc aagtcttgat agcatgcact ttgttttgat caacggatac tccatcttta 180
gacaccacat atccaagnac accacacttt caaccaagaa agcacactnt tccctcttgc 240
catagagtnt tcgggctctt aggggtctcaa atatttggtt canatgagtg aaatgcccct 300
ctatagatnt gctatacacc aat 323

<210> 31173

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 31173

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agctttacat tactcaccca cctatggnta gcaaagtgta ttgtgtggga atttagatga    60
tcattttgtg ttttccttaa gttggacaat gaggcgagtc gaggtggcct tggccccttg   120
gccccgtaaa aggttgagtg agtttaggtt atatttatcc ttgccttgct aaggtgcttc   180
attgtcatgc tggggtagtt nttcatctta ctcaagtact tcttccttat gctaaggtag   240
cttttcctct cagtgttgag ctacctcctt gtctatgtca gttccctcat cctcaaactc   300
aacataacct tattgagttg atttcattnt caccctaana aagttgactt ggattgngca   360
tcatttaatg ctcatgtan gtggctctgc ttgangtcgt ggagatggta gtgtanaatc   420
tctatgatga ca                                                         432
  
```

<210> 31174
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 31174

```

tgtcctcggg gacgaagaca attgaataag ccccttcgag cttttcacag gcgtcaacga    60
ttctcaaaat gaagggctctg tgtttggaag tggcgatgag gtggagaaca acctcggtgt   120
cggaggtagt gttgaagatg gaccgcgtgt cctcgagggt gggtcggagg gtgcggtagt   180
tgacgaggtt gccgttggtg gccacgccga cggagccgaa gcggtagccg gcaacgaagg   240
gttgcacgtt tttgagcatg gattggccgg cgggtggagta gcggacgtgg ccgatggcga   300
ggctgccggg gagctggtcc agcttcgact gggtgaacac gtc                                                         343
  
```

<210> 31175
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31175

```

agtttttaat tttatatnta aatntctaaa agctgatata aatagtntaa acttctgcta    60
atcgattaca taccttgtgt aatcgattac aggcctttta attcaaattc aaaattttca   120
aattttttca gaaatcaact tagccactgg taatcgatta catcatctgc taatcaatta   180
  
```

ccagagagga aatatcatat ttttgaaaag ataattgttc tttaaaaaac ttttgtaaaa 240
tatttccttt agccaaacct gtgcaacatc aattaaggaa ttctttctaa gattctaact 300
atgtatatog ttcttcttgc atttctgaat tcttgactta aatcgcgctt atctttggca 360
tcatcaaaac ttcatatcat atatgttct acatcctana gtaatacttt gaaagacaga 420
gaagacatca naatgatttt tca 443

<210> 31176
<211> 245
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31176

tcattaagaa gcttactcca gaagcttctt cgtggcttct ttgagaagct ttctcaagag 60
acttctttga gaagctagat ccttatctat ccacaccct ctattaacta aattaacctc 120
cttaaaaata attacggata aaaataacac aacaaataat tcaacatcaa acataattac 180
taataattta tatatatata tatatatata tatatatata tatatatcan ggtgttacac 240
ctact 245

<210> 31177
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31177

tctgctntgg attatgatnn ctatacaaaa gttagtgtga taaagtgact aacggngacc 60
cactctgcat gtctgtcaat tgaccatgag ataccacgt cgtgtaattc ttcttaatcc 120
catcacacaa tagatgggtcc catatgtcgt ccagtatttg tcgccttcg ttcaaacaat 180
tgatacgagg acactaatat tttccatctt catccagtcg acttcttnt gaagtaaatt 240
gcaagaactg ctgcacgcct tctcatatt ctgggttgat gtgactntca ttcatcaaac 300
ttcgatccat ctgagtaata actctgtgat actcanagtt attcgatgct tganaatctc 360
actnntttat tatagggtgtg gccctatccc attcangaag accgtctntt atggtagctt 420
catacgtca 429

<210> 31178
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31178

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taagtctaga ttaatttaat tgtcactatc catggcaacc tctttgataa tttttttttt 60
cctttttaag aggaaacaga tcgagacact gacgaataca aatcacaaaa ccgtgaagaa 120
aattcacaaa aacgctaaaa tttcataagt tctcaaccca cattcccca accccacaag 180
ttttcttcat tttctcagca aacaagcagg aaaaaaaaaa ggcaaatcag gaggattgca 240
cattatgcac aaagttagat ctgagaaaaa aaaaaaccca aatgcatgca aaaaagaata 300
aagaaataaa caagttgaat caacaatgat gaaatntgaa aataaaaacta aaaaaaaaaa 360
agtagaaaga 370
```

<210> 31179
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31179

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tatgctttta tttatatgga cttaccttga attaatcct ttgatagccc ttttgagcct 60
tgtttccctt tccttggttt gaagctcact acaagcctta agtgaaaaac catgatatta 120
ccatatacctt aaggaatttt ggagcttttg aattgttttg ggaataagtg tgggggggtt 180
ttgtttcatt ggacaacttg ttttggtgac tatgcttcat gatgtatttt gggccatact 240
tgatgtacat tgtatattgg ttaaattgtt gacatgctga atgaaatgtt gtttctcaaa 300
ggcaaaaaaa aaaaaaaaaa aaaagcaata aagttgagtg aataagatct ttaatggcac 360
aagaatgatg aaactcttga gtctactctt catgggttaat tnttatcttt acttcttttt 420
tntttttctt aatatgcact tattccccct 450
```

<210> 31180
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31180

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 catagcaaat aaagtctcaa agctgaatga ggaaggctct gtagaaacta gagtaggaac 120
 tggcaaagga gtgaatgctg aagctagaac tggtaaagat gaagctggaa tagatggagc 180
 tgcagtagaa ggagctactg atggnngaag ctcaaaagat gggagagtct ttgacctttt 240
 ccccttggcc ttgcgaggcc ctctaaaagt gattgagggg tcacgcacgt tccaccaat 300
 tttcttcatg taagccaaat taatggttgg actg 334

<210> 31181
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31181

tgagttnttt taaaaatcat atttagctaa ataggagaga ccatgaactt taaaaaaaaac 60
 ctattaagtc tgatgaaccg acctgtttag caataatatt ntatattaaa gatattatta 120
 ttaatatgat atatagtata attattatat ttaaattata aaattatttt aagagtttga 180
 caattataat tagtgcttga aatatcttaa ttcgtataaa tataaatgtg tacaaaaata 240
 tacattcttt tctttgggtg agacttaaaa gactttagca atatgtcacc cacaatgggt 300
 ttccatattt tattgttaaa attgtcttat tattt 335

<210> 31182
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31182

ggtgttgaac ccatcattag tgaccttata atcccagcct gaggtaactt atgcttanta 60
 acggtacca actgcgttgt atagaaatct atacctggcg caaaaggcta tgggttatgc 120
 ttctctggcc aacaccacac aaaacttttt cctttcatgc cgcaacctgg agccattgag 180
 caacttggaa cttatgctgc aaacatttac aacaaacctt ctcaacctta gcaggcaaat 240
 caaccaccgc agaacaatta tgacctcttc aagcacaaaa tccattcccg atggaggaat 300

aacctaattct tagaggtcta gccctaacaa caacacagca gcctgctctt tctttcaaatt 360
gatgctgcta aacaagcatt cattcttcac aatcaacaca gcacagccca gaacacaaca 420
gttgagctct cgaaccttct cgagactgta gg 452

<210> 31183
<211> 236
<212> DNA
<213> Glycine max

<400> 31183

tctatagaag gttcggttct aatttctcta caattgcac acccttcaat gagctggtga 60
agaagaatgt ggcatttacc tggggtgaaa aacaagagca agtctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttctgacta ttctaagact tttgagctag 180
aatgtgatgc ctctggagtg ggagttggaa ctgtattgtt acaaggtggg caccct 236

<210> 31184
<211> 512
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31184

ctgactatga ntcnattgca naccgggaac cgagcacgac caggcacctg taaccgccgc 60
cggcggttta ctttatcttt atcannccg ccagacgaag accagggctc tgagcaagct 120
ctgcaacaca ccagananag ncgcaaagca gaaggaggaa cgggctgcag aaactaaacg 180
acgaactggc aaaggagtga acgctgaagc tcgaactggg caagatcaag ctggaataga 240
tggagctgca atagaacgag ctactgatgg gggaaatctca taagatggga gagtctttga 300
ccttttacc ttgggcttgc gaggccctct aaaagcgact gaagggcacc gacggtccac 360
cacattttct tcatgaacgc caagtaatgc gtggctgaga ctcccacaag ataatgaatt 420
cgaactggca tcctatgctc ttgctaaagg agcaatgata gcagagaaga ctatcctccg 480
gagtattctg tgctacacac aaactaacag ag 512

<210> 31185
<211> 411
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31185

tataagaaca aaattgccta aatcatttcc aaatatgcat gtgaattagg aagcatcaac 60
aagaattaag ccaaggctat tgtgcaagca atcaatgggg caaaaaacac taaaagatta 120
tgatgatgga tggctcaa at tctcacaag gtaaacttat cactttcaaa ttgagctttc 180
aaaactatca tgacatgtag aggaaaaaca aggattttcaa atcacaaaat gtcaagagac 240
ttttattttc agaacaatta cccattactt gaacatatcc tataattcan agacaaacat 300
gcaaatttaa cacaacaaaa ctaacaaaat taaactaatt taacacaact aacaaaacca 360
aaaccaaaga acacactccc cccccccata cttaaacaac acattgtcct c 411

<210> 31186

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31186

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caaaacaaga aatgaattga aagtctcgga ttcgaaaact tatcggttga agaacgaaga 120
acggtgaaga acgacaaaaa atcttcatga aattgctcac gaaaatgtct cggaagtgtt 180
acggaagcac ctcggttgg atttttcttca cgaaaacatg gtttttcacc caaacagtt 240
gaaatgcata gccaaagggg ttagggggccc tttggaacag cccccctttg cctatttata 300
agaaaaaggg gaggaggttg ccgcctagca ngcccaggtg agctgagttg ctctctcctt 360
aagtaaccaa gcttccanaa ttcgaaaaat tgaaaatggc tattngcacc cncatcttga 420
taagtcaccc ccttttcgta attacgaaaa agtat 455

<210> 31187

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31187

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ttttccaaaa gttgaagcaa ataaattaat ttaacttctt atagataaat ttatccagga 120
 tgatcttggt atgtatttct tctttgggag attgtaagat tatccttaac ttacaatntg 180
 aatntatatt ctgaattatg tgagttatat ataagtgggtg ttatgtttga taatggattt 240
 gtttatttta gctctaaata tattnttatt cttgtatctt ttttagtctt tataaaatat 300
 gtttatttta tttttgtggt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360
 gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<210> 31188
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31188

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 atccaacaag gatggtcaac ctgataacca tcaccatcgt tacctcaaac actgagcttc 120
 tactaacaat ggagaccata tgaagtgtgc aattttttat actgatttgg tgcacagagg 180
 gaagtcctct aatttaaggg aattgaaatc tttacctggc aattcggtag gtaaagttga 240
 ggtagatgct gatgatatag catataataa agggaacaag catattagta aaacaaaaca 300
 caggaaaggt aagcttgatg acatttcacc aagtgggaca gaaactgcta agatatacag 360
 caaanagaat agtagtaatg ctgactgcc aagagctaaa cacaatagag atgctact 418

<210> 31189
 <211> 424
 <212> DNA
 <213> Glycine max
 <400> 31189

ttatatgaca ataacagtta ttaaaagttg gaagtgggtga gctgattcac gacttttatt 60
 tgatattaga aaaatcaaaa tagagtcaat aataaggaga gttaacaagt gaaaattaga 120
 gtgaatgagt attttattct accatcgag gtcatgtttg gctgatgagc ctatttcaaa 180
 acaacaacat tttaggatta actagcatga tatgagatcc ttgccactac acgggtcact 240
 cgactgtttt tgtaagattt ataggtaata aatataaata atataatata tttccaatta 300



attaagggtta tcgctagaat caatattaag gttaatgcta gaatgaatat ctatgtgatg 360
 agtatatcga ttataaaaat ctaaactata tcttctgtgt taacaagaat aaaacaataa 420
 gatg 424

<210> 31190
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31190

tcttctccat ttgatcacgc gatcttatat gatcatctcc accaccccaa aggaacctac 60
 gttgtatgcg caccaatttg tccaccaccc ttatgggtac cctgaaaaaa gaaaagaaat 120
 aaattggaat agagggttagg attgatttta taagagtgcac tcttccccca naagatatgt 180
 gtctctgttt ccactttgct agtttctctc cgtacttata gattattgng tcccacaact 240
 gacacctcct tggatttgcc ccagtgggca tccccaagta aacaaaaggg atggacagca 300
 ggctacaatt caagtaattg gctgcattnt gcttcacga ctccgacata ccaatngatc 360
 cgaatctgct ttttgcanna attattgaga cctgacacca attcaaaggt cctcaagatg 420
 gctttgatca ccctgatggt ctncattgat 450

<210> 31191
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31191

ctaattcctt ttatccttnt tttcttttct tactaggggt naatgaacag gttatcctga 60
 catgccttta ctctttatct tactggatga cattttctag aataagggat taaatgatag 120
 agactatgaa gggaggaaag caaacaggaa ttatggtgca ttgggggtgg aatgaaagtg 180
 gaaagaaaag gaagagaaat agtaacctta gaaagaaaaa ttcaataatc aattatttct 240
 ttgcgaagtt actttttttt caatcaaac taaaactttt ctcttctccc cactttttgt 300
 caccacacca aatgaccata aatgattgaa acttaatgga gttactcttc aatgggctta 360
 tatgatgatc tattttttga tgtattgtca tactaattga tagctttat 409

<210> 31192
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 31192

caacgagccc ctggacaagt tgcgagttag cgtagcatca cagcttcttg accctgatta 60
 cacttgctag tttgagacct gcaatgagtg cctcatactc ggctaatta tctaaggctt 120
 agaagttaag ctagagggct cactctagag taacatcatt aaggccttcg aggatgattc 180
 gtaccccgca tcctttcatg ttggacgcac tgtcaatgta gaggctccac cagtctaggg 240
 tggatatggtc gttccagaaa atctgcatga actggtctca tgggctgtaa ggtcatactg 300
 agatccactc tagagtctac tgacatgcaa catctct 337

<210> 31193
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31193

tgacaatgct gttaaaatac atatntcacg agataatttg atgcctcagt ctgtttcact 60
 tttgcgtgta aggatccctt gttcaaaagg atgggagctt ctagaatggc ttcgtttgcc 120
 gtagatggta aggtctgcta tctatatnct tctgtcacta aatgcttgct attgctattt 180
 tatgaccctt atttctttgg tgcattgacat atatngaact tttattaatc attagtcatt 240
 tgcattatag aggtagttgt ttctagaacg gattcctatt cttgtaacaa gcataatttc 300
 attatccctg tgctttacac tagtgacatt tagtcattta atatttatct caacttaatt 360
 cttgaaat 368

<210> 31194
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31194

gtgtctttga nttcagcacn tgcganngag ccgggcccgg gancncanc gtcgaccngc 60

ngcangcaag tttatTTTTta ctttacacag acnaagcgaa naggnCGGga cagaacacac 120
 cccancaanc gnaggaanca aagcagagaa agannncaaa acgcngacca accaaaccgg 180
 agcaacaaag acancccgaa ncatcataca gaaaacaaga cccaccaccc gccaatgac 240
 gaaacacaat aaagcatgaa aaccatccag acttatggct ttaacgctcc ccatttgact 300
 aacagtctaa tgagatgtag tagcccaatg aagacaacca acatccacat accatttctga 360
 tgtaagctcc attggagctt gcaagcctac gatcttcttc atcaatggat tcctttgctt 420
 cttgcaacat gaatggctgc agaatggaga aggaagagag agaggacacg ccacttcaat 480
 gacaacacta gtctagaaca tgctcaccac catatgaaag cg 522

<210> 31195
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31195

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtgg 60
 acctggagat atgtcgcggn ggctcaggaga ccttgnngac gtcaagtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 300
 cctctggtaa tcgattacca aggggtgggta atcgatta 338

<210> 31196
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31196

agcttatgtt gtatattatt gatgncaaac aaagaagtaa aaacagtga ggtatggtg 60
 gtcaaaccag ttgcgaaatc ttcaaactca tggggatagg catcccaagt gatatgctgt 120
 aaagcaccac aaaaaatggg aactatatta ggacttcaa aagaaatgct atgctggctt 180
 ctattaaaca tggaattgaa ctcaacggga ttagtcttcc accctacaag gaaaggaaac 240

cacccttcga atttgggctt aaggcctaac tcanaccggc tnttaaggta aggactaata 300
aagccttana aggactccat tagagcatct ctaatgggtg taatttaagc aacctattnt 360
gagttgttta cattactggt aattgtccca acaatgtcac atcanattta agtaattcat 420
atata 425

<210> 31197
<211> 302
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31197

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gttggacctc ccaagagagt atggagtcag caccactttt aatatttctg atttaattcc 120
ttttgcaggt ggagctgata tagaagagga agaaccaata gatttgaggt caaatcctct 180
tcaaggggga ggggatgatg caatcctccc taggaaagga ccagttacca gagccatgag 240
caagaggctc caagaggatt gggctagagt tgataaagaa ggccttangg ttctcatgaa 300
cc 302

<210> 31198
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31198

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ccttgtgata aaggtagtgt tgccatgttt tcacagccca tattaatgca tacaactcct 120
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180
gatggccttc ttgcatcaac acagcctcag tccccacatt cgaagcatca cactcaatnt 240
caaaagattg ttgacagtca gacaacgcaa gtatggaggc attagatagc tntttcttaa 300
gaacattgaa agcatcttct tgattctctc ccatttcgaa accaacatta tgctagagca 360
cgtcattgac aggtgctggc aatgtgctaa aatccttcac atatcatcta t 411

<210> 31199

<211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31199

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 aagggttaana gaagcttaac ctcatcttct catgaactgc aatttcgagt cgggaagggt 120
 cgcgcgggcc gggaagtcaa cctcgggttg tagaagaaca agcttaagga agtcaacctc 180
 ggggtttaga agaacaacct caggttcaaa agagtgaaca acctangggc ttgcttcana 240
 tgcgaaatga gcaacaaggt tagggttcag aacagtgaac tcaaatgcga aagcaattan 300
 ggttttttga actaaaattt ttttttttaa tttgatttac gacgggtttt taataataaa 360
 ctggcataaaa tttataacac anaacattct aagggtgggt tcaataaccc gcttagaatg 420
 tacgtcgtga attccaantt tcagtattat a 451

<210> 31200
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31200

tttctcttgt acttctnct tgctacaatt gcaattgcc a gtgtttaagg ttgaccaca 60
 tttcangcac atgcctttgg acccaagacc acatactgaa ttcattgtaa tctcaagatg 120
 caccctggcc cttatgttct ttgaaatgtc aatttggtc ttgtgtggag gaaaatataa 180
 ttgatcatcc atgtcaataa gtgcacgtc gtcggcatcc ttaccactgt nttcagaggt 240
 tgaaagtgtg cttcccaaaa aataacaccc atatcaatag tctcttggtc ttcaatgcgg 300
 tcatcagtga gtaaaagtga gaactcagag aatatgc 337

<210> 31201
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31201

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gttttatcga ggcaatagat ctaaatatct gngaagccat aganatangg ctttatatac 120
ccaccacagc agaaagagtt tcaatagatg gtagttcatc aagtgaaagc ataaccatag 180
aacaacctac agatagatgg tctgaagagg atagaacacg agtacaatac aacctataag 240
ccaagaacat aataacatct gccctatgaa tggatgaata gttcacaagt tcaaattgca 300
agagtgctaa agacatgtgg gacactcctt cgataacaca tgagagaact acagatgtta 360
aaagatctac gatacatgca ctaactca 388

<210> 31202
<211> 200
<212> DNA
<213> Glycine max

<400> 31202

tgtacgcgac actatgcaat acataatcgg gagacgtaca aacactgact taaggagcta 60
tgtgcgaact atgtacgcaa caataaatgt gaaattggag gcgatagtgc aagagaatga 120
gaaaatgctg tggaatgcag agtctgagag agtgcttcca actacatatg acacaagcac 180
agccagaggg cgatgactac 200

<210> 31203
<211> 267
<212> DNA
<213> Glycine max

<400> 31203

ctatacttta aatctttaat tcaggttacc aatgggtgac aaattaaaaa atcttgaata 60
attctaaact attgatatta aaaaatattt attggggaac taaatttgct agtaaattca 120
catgaaattt tatcctaatt ttctaccac attattataa tattaataaa ttttacctac 180
caatacatgt ccacaagaaa atcgtaagta ttttctggca ttatatacc tatagaaccg 240
caagtatttc ctattgattt ctttcaa 267

<210> 31204
<211> 462
<212> DNA
<213> Glycine max

<400> 31204

aagccatgga aaaaagagct tcaccaccaa gagagtgtct tggataagaa gattagagag 180
gaagcttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tcctaccnc 240
caagggcatt ggatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccta 300
nggttctcat gagcettang gcagatttcg ggcccatggg ctaagtatga gccacttat 360
ctttgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420
tgtagatagg gtaccctaga aatat 445

<210> 31207
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31207

tgaataacgg aagctcttga gaatttcaa tggtcataac ttggcacact cgggtccgat 60
tcaagcttat aatatatcga agacgcctac aattaaacat cggaagctct cgagaaattc 120
gaatggcat aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180
gaaatcgaac aacgaaaact ctcgagacat tcatatggtc ataacttttc ctcgatgtc 240
cgattcagac gtatcacata tagagacgct cgtanatgca catcggaagc tcttgatgaa 300
ttacatggtc ataactttta cacggatgtc cgattcaggc gca 343

<210> 31208
<211> 508
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31208

cggcgcgggg tgatacgtc agtatcacgn gacactatan antactcaag cgacatatgg 60
agcgcgcaaca agcgatctac gcgtgtatca gaatcatgct atgtgctcgc gaatgggtccc 120
cgatgtccct tcgcaacttg agttcattat tgctacccca tagagctccg cgaaatgaga 180
agcggccata cttttacttg cgagccctct tgggctgttg atcaagggt gttgcggtaa 240
gtgcattctc ttaccggaac ccggggcact cattccgaac gtgtgtaaca tccaaagtga 300
acttctccgt ggcgagttat gcctttccta actcgatttt gagagcttgg acttntctcg 360

gatattcccg tgctataaaa atctcttcga tgacgacttt taacttggcg agccaatcta 420
aacctcgtat gcgaactttc agccattcgt ggatgatgca agctccattg gagcttgtag 480
gactangatc ttcttcataa tggattcg 508

<210> 31209
<211> 413
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31209

agcttttttg ctctatttat aggagctgac aagaatatct tcagacttat caacacatgc 60
acagggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg 120
aagatgtcca gattgcaact attggctaca aaattcgaaa atctgaagat gaaggaggaa 180
gaatgtattc atgacttcca catgaacatt cttgaaattg ccaatgcttg cactgccttg 240
ggagaaaagga tgacagacga aaagctggtg agaaagatcc tcagatcctt gcctaagaga 300
tttgacatga aagtactgc aatagaggag gcccaagaca tttgccacat gagagtagat 360
gaactcattg gttccttcaa actttgagct aggactctcg atagggctga aag 413

<210> 31210
<211> 327
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31210

tcatgattgc ctaagtgtgg accctcaagt gcaatccttt attcttctct ttnttcggag 60
cccatgaat gtcattgcct agcgtgttc atgtgtcctc caccttccag cttggtgcta 120
tatttcatga ttgcctaagt gcggaccctc aagtgcaatc ctccattctc ccccttcttt 180
ggagcccat gaatgttatt tcctagcggg gttcatgtgt cctccacctt cgaatttggt 240
gtatatattc atgattgcct aagtgcggac cctcaaggca atactccatt ctcacacttt 300
cttgagccc catgaatgtc attgcct 327

<210> 31211
<211> 426

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31211

agcttttata tatatgttca tagtgtatgc taactttgtc tcctttcttta attccaatcc 60
ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120
atatttaagt tttatagtta ttccaaccaa ctgggggaaat ttagattcat catanataga 180
ttagtaggct aattttgcat atctgacctt gcagagtata taacagaatt tgggccgatg 240
tacttataca tganaaatgg gtaggaagaa actaaagata tggaaagcaa catcacctga 300
taaaggtatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgccatt 360
caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacctgt attaacatcc 420
cccatg 426

<210> 31212
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31212

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gagatggntg atgaaaagtt gtctgatgaa attttacatc ttaattaaac cttacaatt 120
ttctcaccca acaaaacttt gtatgcctc cataaataat tttatgtgct gatccttact 180
ctcgatcggg tgctattgga ggattttagt aatttaatta tatggcataa taaattaaaa 240
tgactataca tntgtttact tactcacaac tctgtatgga ttcaaagggtg aattttacta 300
tataattaaa taacttggaa aaattacaga aggaaacatt cgaccacgta atttcatata 360
ataatcttca ccaaaatfff gtacacgttg atattgtcat tgcactaatt catttataaa 420
caatcaaatt 429

<210> 31213
<211> 251
<212> DNA
<213> Glycine max

<400> 31213

aaatctgact tgccaagggtt ggggttggct ctctgctgac acatacagac tttgcgttca 60
 tgcacacctg gacaatgaca cttgaactat ctgcaatatt acataacctc tcaactcaca 120
 caaatcacc cagcaacaata tgactttcag cagcagataca cctgatggag aatacctaac 180
 tcaatgtcag ccttacacac acacagctgt cttcttcaaa tgtgtggcca acaacataca 240
 tctcacatca c 251

<210> 31214
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31214

tgccccaatg attgcatact gtacaggcat gaattttatg taatgtccaa atgccctatc 60
 tatgggactt cacggtagca agtgaacgat gaagaacaca gtagttctga tgaaaactcc 120
 aacaagggcc ccccaacaaa ggttttgtgg tatcttccaa tcattccaag gtttaagcgt 180
 ccttttgcta acgaggagca cgcanaanac cttacatggc atgcaaattg aaggatttct 240
 gatggaatgg tccgtcatcc ggctgattgc tcccagtggga agaagattga tggtttgtat 300
 ccggatttcg ggaatgagcc aagaaatctt agacttggac tagccagtga tggaattgaa 360
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 31215
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31215

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 gcacctgcag ttagtcacct ttctaacgtt atgccagaca gaacaacatt ttggcattgn 120
 cgccagtcca agaagaacta atcttccacg cccatgaccc caaggggtgg acgagttgcc 180
 cgagtgtacg ctgaaaaata cgctagaaga aaggtgatca acttcttaca tcaagagcaa 240
 caatgtggat ggaccgattt gctcttactt tgaacgggat tcaagaactt cctcgattgc 300
 tagccaaggc ttaggcaatg gtggacacct acttcgccct cgatgagatg cacagacttc 360

tccggtattg gcagcatatg atagacttaa tgggccatan tattagaaac cactacgaag 420
 tttgtattgg cactcagatc ttgactaatt ataactttct tgaaaaatga gttatccatg 480

<210> 31216
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31216

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 aaaaaaattg atttacagtc cttaagcaaa attcttaatg agagtaaaca gaattatgga 120
 aaaacgaaaa aaccaatggc atgaaatgct ttggaatata actctagatt gatcacactc 180
 ttgtcccttc tcaactcccc anatttccat tttcatccca gacattaacg tgttctggat 240
 tcatgacctt caacagcgta caccttaaat atgtaactta cttgttcttc tttccatctt 300
 tttctgcctc ttgtttgaat tgcattgtact gttcaagcaa tttcatcgta atcctctact 360
 tctgctcgtc ttccaacaac ctcatctgct caggttcatg gttttcctct gagcttgctt 420
 tcttgatctg caccaagcca tcaatacata aaa 453

<210> 31217
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31217

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 acgattccat taaaagacta ctaactaaaa agatcatgtg gaccacatta gtagaacagg 120
 ggggtggcag gtgaaaacat atgcatgcct tactatttaa agtttacaat atggaatata 180
 taattatgtc aataaatatc tgaaatacga gctactatgc ttatttattt atctgaagat 240
 acctcgataa atttctaact ctaactgcaa gaggttattt ttaactcgcg atacaatgag 300
 tttcaattga cccaaattga gacactacac acttggacat ccacaattct caaagatctt 360
 ctctaagact ggaaagaaag cctctacttg gtgctgtatt atcaccacat gaca 414

<210> 31218
 <211> 564
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31218

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 gccgggggtg tgactccttg nannacgcga catatanaaa ctcaagctnt acnncggatn 120
 nnnacagcac aaatcaaaca cacatactat atattccacc gcacacatac ccactagaga 180
 aaaaaaccag atgaggacaa aactctatcc actcacacga aagaaacaat aacacaagac 240
 aaaatcgcac acatcntata gaactaacta caagatatat cgccacacaa cggttatcaa 300
 atattaaaag aaaaaaatga acataagata atcaaagaat ttacngaaag aaccaaaaac 360
 gaaagagaac aatagccctt ccaaaaaagc caacaagaac tgcaatcaac ttacatattt 420
 tctgcctaag aaaaaaactt aaacaatttc tcattcttta ttttcataca ctactaaata 480
 tctctaactc ttttaaacctt caaagtgtca tacagggtcac tgcccacctc aatagaaaga 540
 gacaagaatg actacgcgta gcag 564

<210> 31219
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 31219

agcttttgtt aatatattcg ttctgaactt atcttggaat taattgtttc ttaaaaagga 60
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattatga tcttttactt 180
 ctatttcctt ttttccaaat tataaaaaatt gaaggacaca caatttaaaa aattcaactt 240
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300
 aatttagtta aatgcattca aaatatTTTT tatattatta ttaaatttta aattgagata 360
 ttaattaaaa cttgtgactt cttataatta ttacttta 398

<210> 31220
 <211> 321
 <212> DNA

<213> Glycine max

<400> 31220

atgatgtgat cctgcctaag agcggatcgc ttgatacatg ctacaaagaa ttggatgacg 60
ccacttccca agatggaaga gaaagtatgg tagacgccac aatgattaac cttataagtc 120
tgagattggg tcaacaagaa acccatagag aagctctcac caaatTTTTat gaaaatgccc 180
atacttatag tgtatctgaa caaaacgata aaatagacat gggctcttcta aacagtttgt 240
gccactatta caatttataa aaattattta tataaatata acatattggg atggccttca 300
aataatctgg acttcaacac a 321

<210> 31221

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31221

tctagcttgt tngtgaagct tctatggagg ctggatcttt gagcttcaat gaggtagctt 60
ccttgagaag ctttcttaag aagttagaac ttagctacac acacccctct aataactaag 120
ctcacttcct taagaagttt ccttgagaaa ctctcttgag aagcttcctt gagaagattc 180
ctagagaagc tagaccttat ctacacacac ccctctaata gctaagctca cctcattgag 240
atgagaagct agagccttag ctacacacat ccctacaat agctaaactc accccattcc 300
aaaatacatg aaaatacaaa aaagtcctta ctacanagac tagtcaaaat atcttgaaat 360
acaaggctaa aaccctatac tactagaatg gccaatatat g 401

<210> 31222

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31222

cttagagggc aaaattgaga aatgtgcac tactatatgt tttttatgnc gggaggattg 60
agaaaaaaga tataggaata ggatcacaat gtatttgagg ccacattaag taaaataaat 120
gtacactcat tatatgtttt tctatgttgc catgcacatg tgaatatctg tgattttcat 180

tcaaaaataac tcactgacac tcatagtggc aatttagatg ctattaatcg gtaaaaattaa 240
 tttatctata gtaaattattg tctagaagac tgagtttgac ttgaatctgt aggattgaaa 300
 cagattatct cctcacctga agagaccatg gatgatagtc atcaacaaaa agattctatg 360
 gttggacctg aagataatac tcttcaacac gccaatagaa atactcatta tgaggagcaa 420
 gcagaagcaa acaataatta catcaca 447

<210> 31223
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31223

acaaaaagaa gtggatcaga tgggtgtataa atcatgtagc gggcaccttc ctacaaggaa 60
 aacgccctat atattaaaaa caccgtaaaa attagtgtcc atatttctac tgaagggtcg 120
 aacaagccaa aggtctcttt aacaagcatc taaattttta atattggatg aaaacaattc 180
 aacaaaaaat gcatctaata aataaagcga gcttcttcat ggtgtggtgt aaacacaata 240
 tggatgtgag aaagtaattt cgatataaga aaataacgat aatgaattca gtatccagga 300
 ttcttncagt agacttgatt aatagaaaag aataacaaga aatgagaga agcggtcata 360
 tggtaacaca ngcaggggac acagtaac 388

<210> 31224
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31224

tctctagcta ctcttcacct totatcacca tttctatntt tgactatata gaaggctntt 60
 gttggttact ttgttttcca caagaaagac ttttaagtaca cattctttgt cattttataa 120
 tcaccaaccc aacaattggg taacttagat ggctngtttt ttcattctgtc aatctatcct 180
 ttcgaaatat tgacgactgt gtttacagtg tgtttaaaac aataattaag aaaccttgac 240
 gctgaaattc tagtattaaa aatttaataca ttttgaagat aactggttta gtgtttatag 300
 gtgaggggtct tccatatgtg gaaattacat tgagtttcaa ctaatatgag agacagggcat 360

gcatgcatgc aatccattaa aggggaatatg aatatcggaa taaaacttat ctccctatta 420
 ttaanntatt ttcanaataa ttataatcaa cacat 455

<210> 31225
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31225

cgccgaggcc atgaagcatt gtgacttccg tcgantccag ctccgacccg gggattctct 60
 agaggcgaac tgcaagcctg ccagcctaata ctcaaagtgt taggttaaca agccaatccc 120
 taagacttga actaatatat gccgggctaa ccagagaatt caacctgagc ctgcctccct 180
 tggaaccaa aacaaggtaa caaaggcctg agcaacactt ctacccccca cattcttcca 240
 attccattag gaatgaagaa aaaaaaattg aggttcgggg ttgcctccgg gaaacaattc 300
 tttcacggag acaatagttg gtgcctaagg gggcatataa gacataaaga acacatcatt 360
 cctctttctc ttcttaagta gaaacttcat gaagtcatgc atcatgcaat gacctccaac 420
 cattgcctag aagtgtcgtg agcaagcata aaacgattaa aatgatcact tctcaagcat 480
 ttcctgacat aaatgtgg 498

<210> 31226
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31226

ccaaccttca tacttgaatc ttgtgatgga agccctctct tgaaatgact ttatgaggg 60
 ttaaaccaga gcaaaaattg cttatggaaa tcatccctat gtatactctc aaatcgtgtt 120
 ggttatgcac gagctcgaat tacaagatct atgagtcctc gttgggcagc atgaggagct 180
 gtaactgca gctcatgcac ggctttgctg gctcgtgtcg ttagtcctga atgagaaccc 240
 cagaatatan ctgcttatga caatataaac taactgggtga tgacaccccc tgtcttcttc 300
 ccctactgat aacatcataa tata 324

<210> 31227

<211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31227

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agctttataa ggcgagggttt gggatactaa ggtcaagtgt tcgcgatatg cgaagatgat 60
gttccgagta ctttggtttt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
cgagtgggaag aacgccccgg catttacgca acgagcataa tgtaaaccctt tacggtttta 180
aaagctctat agttgggcct aggctttaga gtttntcctt tgtaaggct ttgtgtcttt 240
tgtttttgaa ttataatac aaggatcttt cttcatctgt tcctatgtct ctaccattc 300
tcattcattt gcatgtntac ttctttntct gaaacggcag atccgatgac gagntccccg 360
aaggctactaa tacctgggac ccgcctatcg acttcgagca agaaatgaat canacggaag 420
atgaagg 427
```

<210> 31228
 <211> 350
 <212> DNA
 <213> Glycine max
 <400> 31228

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tctttatttg aacgactgat atttgaattt aaggaaaaaa aaatagaagg gattaataag 60
aatattcctt caagggcact atcgtcgcag aaaaggagca catgtaggta tttggattat 120
cttttcctgt ctaaccagag tgcgctaagt tgcaccactt ttagttgaga taacgatcat 180
ttcaagactc ggcgttaatc tcatactgaa tccttcattg aaatatataa aagacgtctc 240
atgtccagaa tttttaggaa tgaagaatat taagtgaaaa tgatcaaaca tctctgaata 300
gaaactctat taaaatcatt ggacgatata ctatgcactt aagcacttca 350
```

<210> 31229
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31229

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tttgttccct tatntttcta tgcaaaagnt tctggtacat aactactaca attttgctgg 60
```

catggagcgg tgacctggtg atatgtgctg cttttgtcat acaatggcat tgttgatgac 120
acatttgcac tgtaggctgt aacaatgtgc aagcgcatgt gttctcctct ttacataatc 180
tggcattctt gtatgtttgc tgattgatga aaaccactta tacaacaaat gtggatggag 240
tggatacata tatagatgta tgtcctacct ttgtttagta ttgctctagc aaatctc 297

<210> 31230
<211> 318
<212> DNA
<213> Glycine max

<400> 31230

cactgccact gctgaatctt gattaccttg tgcacttgc atgaatgtat ttctatacct 60
ataaaattat accttattaa aatggaaaaa ctttaatcac tatttccttc ttctaattt 120
tcttgagtaa agtatcaaag tagttcttta cttttggagg cgttgtcaat ttgaattctg 180
aaacttaaaa aatgtcaaaa tgatcatcga ctctacattc cgtctgtcac attagcttct 240
gccgtagta gtctcttaac actgttaata aatgtatgat gtggcacgtg aacgcatacc 300
tggaactttt agatctaa 318

<210> 31231
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31231

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atacatcaaa tagttaacta gattttgtta tactttcttt ctggtggcag atgtgtgcta 120
agacttgggg caagtgcctt ctctacctta aaatttattt tggaatatgc attattggtc 180
cactaaatat tnttaatttc ccactaatca ataagttata taaacatgga aaaaaataa 240
aattttgtta cctgtaaaact acaagataaa aaattatatt attttgaacc ccagacctaa 300
gaaacccct tactctnttg totattctgc ttttggtagt tgagagtcac tgccatgca 360
tanaatttta ataagaaatc agttgtagat agtaacttct tgatttcnc tgtanaatat 420
ttcacatt 428

<210> 31232
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31232

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 acgacaatga catccccccg gaaatccggt ggtgacaacg acattgccac ggagatctat 120
 tgacaatgac aacttctatg gcttaagcaa ctttaacatc acattgttca tccacagntt 180
 aatggttaag tttgagccat cgtggagggtg atacatgaag acatgggttga tattgtgtgg 240
 aacatcctga aattttctta t 261

<210> 31233
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 31233

cttgattact ttaaagttta ttgacccct ccaaaagtat attttatggg gactgaattt 60
 tgataatttc cacaaacttc atttatgcta tcaactaaat ttcctcatt ggatcattct 120
 aattttaact acacaaatga taaaatattg aagttcctgt tgttcagtaa tattttaaag 180
 ggaaagttta ataataatta aatacattag aaagtattta aatacgcacg tgatgagtag 240
 cttatattaa caatttttat ataaaagatt atattatctt ccggctatgt atgtcagaac 300
 actcaattag ataacaaaca caacaatg 328

<210> 31234
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31234

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 actcctcacg tttggttttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120
 ctatcgcacc agatccaaat ctacaacgat ggggtgatcaa gaggagacac acgaacatat 180
 gaaagccgac atgtcggctt tgaaagaaca gatggcttcc atgatggacg ccatgttatg 240

aatgaggcag ctcatggaga ataatgtggc caccgctgcc gctgtcagtt cggctgccga 300
 agcagaccca actctcttgg gcactgcgca ccactctccc tcaaacatag taggacggtg 360
 aagggacaca ctgtggcatg atggcaaccc tcccctanga tacaaccgag cggcttaccc 420
 ttatggattg cgcgccaact actcacc 447

<210> 31235
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31235

cagggtttgct agcttgtant gatttcgctc caattgaagg gttcctctca gtgtgggggtt 60
 tcaacggcgg tttgaggcaa ccaccaatgg ttgtgggtgg tggagaataa gcttggggaca 120
 ttggggaagg gttttggaaa aaagaaggag aaaggaatgg ttgctttcca aggctacacg 180
 aaaaataaga cttgaaacac tcaagtgttt ctgctatcgg gaaaagaagc ttttctcaca 240
 caccacaaga catatcgcag atcgcaacgg ttagagccgt ggaaatatgc tctatgaacc 300
 tccagaccaa atttcaataa gatccaacgg ttaacgaatg catgacgggtg attt 354

<210> 31236
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 31236

ccttatcgac gattaacaac agcttttaat gaaaggcagg agaatgaatg cccccgaaa 60
 ccattaactg gaaacgaagt tcatgattgg gtaaaccgaca ttgtaaccgt gtttgggaag 120
 tcccatttga agacatcatc tcgcaacaac atgtggaaga aacgcttaat attctttgat 180
 cttccatact ggtctgatct acatgtgcgt cattgtctag atgttatgca tgtggagaaa 240
 tatgtgtgtg atacgttaat tggctctctt cttaacatta aacggaatac aaatgat 297

<210> 31237
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31237

agcttttgat tccttcaaac aacaataact ttttactcgg atgtctgatt gacacctgta 60
 atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120
 tttctacttg tatgttcgat tgactctggt aatatatcga aacgctcgaa attgaagacc 180
 gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcccg 240
 tactatatcg agacgctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300
 acttttttcc tcggatgtct gattgagtcc cataatatat cgagacgctc ggacttgaat 360
 gccttagctc tgagcaaatt caaatgacaa taaatnttta ctgggatgtc taag 414

<210> 31238
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31238

acacatagaa tactaagctt cggattcaag tccgagcgtc tcgatatatt acgttgantt 60
 tgtctgacat ccgagtaaaa aagttattgt cgtttgaata tgctcagggc ttccgtaatc 120
 aatttcgagc gtctcaatat attacgggac tcagtcagac atccgagtaa aaagttattg 180
 tcgttggaat ttgtcaaag ctgtcgcatt caagtccgag cgtctcgata tattacggga 240
 ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgtcata gctaacgcat 300
 tcaagtccga gcgtctcgat atattatggg actcaatcag tcatccgagt aaaaaagcca 360
 ttgtcgtctg aatttgetca tagcttcggc attcaagtcc gagcgtctcg atatattacg 420
 ggactcaatc 430

<210> 31239
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 31239

agcttattaa aaactcaagg tctgcccttg gtactcatat ctccaaaacc caaggtccac 60
 ccttagtaca tattcttget aaaccaagg ttcgcccttg gtacatacct ctacagaact 120

cgagggtaccc cctcagtcg cttacatgta gcaactacaa tgaccatcgt caaggggtcca 180
 agttcaacca aacgaactac caccacctta ttttgcaaga cttttaatta ggtcaaaacc 240
 acacctactc ctcataacca tcagagatct aaatgtagat caactctaata ttgttattgc 300
 gatttgatta cttttttgtt tatgggtgcc tatgtacgaa ttcgagtga gaatatgttc 360
 aattcacttg cattgtcata aaaccacat gtttaatatg gattataatg ac 412

<210> 31240
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 31240

atctgatcat catgctttga taaatgcaaa aaatttgggg caaatgatga aggtgagaat 60
 gatggaaaaa cccatgctgt gactgccatt cttatacagc ccagtttccc accaacccaa 120
 caatgtcatt actcagccaa tatcaaacct tctccttacc caacacccaa ttatccacaa 180
 aggccatccc taaatcaacc acatagccta tctaccgcat ttccaatgac gaacaccacc 240
 tttagcacat accaaaacac caaccaagat atgaattttg cagcgaatca gccctgagaa 300
 ttcaccccaa ttcgggagtc ctatgctgac ttgctaccat atctacttga taattcaat 359

<210> 31241
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31241

tgttgcaagc ttttaaaatt gttgtctttc accttctcgc taagccaatc tgggtggcata 60
 gagagcttcc actaagcgca acatcatag gctaagtgcg aggaagactc tggaagaaga 120
 tgagccatac aggttcgcta agcgtaccgc ttcattctcac taagcacacc gcttttagttc 180
 atttgctaag tgagaaaggc acgcgctaag ccaaaattca ctaatgtgcg ctaagcgcac 240
 gagcacgaac aaggccacct atntaagcct tanatcagat tttagagagg gagtttggac 300
 tgggattcag agctttgcat gtctagagat tctacagaga gaaagggtcca agtgctagag 360
 agtnttgaga gattttgctg tgtgaagatc tgcagagact atagcttgaa caagagtc 418

<210> 31242
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 31242

tgatagagtt atcatcacat gacattttat tggcactgaa taagttgctt tcgaagcaac 60
 atgagattgt aacagaaaca ctcggtgaagc tgtcaactaa gttgtctatg ggtcaaccta 120
 cacactcttc tattttgcag gttacagggt ataccatctg ggggtgaggct catgaaacaa 180
 gccaatgtat tcccactgaa gaaaacactc aataaattca ttatatggga aatcaacagc 240
 gacaagggtg tactcaagga ggattttcag gcctccagca gggtccttat aatcaacaag 300
 gacagtggag gacacaccct ggcaatcagt tcaataaaga ccagagtggg ctttcaaaca 360
 ggccaatcca acaaggacat aacatattcc agaggactac taagctggag gagatcttga 420
 tctcagttat gtaggtaaca atatcaaata ata 453

<210> 31243
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31243

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 aatgcgtaac cattattnta gttatcctaa gtatagcaag caagaagtca atcaactntg 120
 tgtgggtttt gctaattgca tgtgtttaccg tgcaactaat aaaacaaatc acaactcagt 180
 gcgcattatt tcaaaagaaa gaaattaaca tctacatta atttaggtgc aatgtgcccc 240
 tcaccttggg ttgttatgaa gatgcatgta tgccccacag gatgtggtaa accattatgc 300
 tatagagttt aggtgttgca catctgcttc aaatgttctt tnttcaagta ttgatcccc 360

<210> 31244
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31244

tccatcanag gtgcagatga cgatgttagt ctctggatgc taccagactc ttgagtctga 60

cggatagcaa ccaagacatt ttgcagctct cggtcggaag acgctgacat ctctgagaaa 120
 ggtgcagatg atgacgtttag tcaactgcatg ctatcggact ottgattctg acggataaca 180
 aatgagactt ttgcagctc tcggccggaa gacgctgaca tctctgggaa aggtgcagat 240
 gatgacatta gtcactgcat gctactagac ttttgagtct gacggatagc aaacgagact 300
 ttnttgagct ctgcgcgga agacgctgac atctccagga aaggtgtaga tgacgatgct 360
 agtctctgcg tgtcaatggg ctgccttgcc tctagctgac aaaaggtacg gataaccata 420
 aggtatctcc gcatatcat 439

<210> 31245
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31245

agcttgtttg tggggcttct atgaaggctg gatctttgag cttcaatgag gtcctttaat 60
 ggtgattttc caccatggag atgcagcgaa agacaaagaa gaagaggtga gaagaggcgc 120
 catccactat ggaacaagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaaggg 240
 gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtgtgtctca 300
 taagactttt attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactan 360
 gtagcttcct tgagaagctn tottaagaaa acttccttga 400

<210> 31246
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31246

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 ccaaagttgt tggatgactt ctcaactaac tacttgcca cttgaccac ctggatttca 120
 aagtttttca gggctgattc agtactctta tgggtggaca tggccacttg cataaactgg 180
 gctattgtct cctccagttt ggtggctctc tgaaaaatat ttggcccttg ttgaggtggc 240

ctgttgaag gtccacctg gtccttattg agttgattgc caaggtgtga tcttcattgc 300
 ccttgctgat tatagggacc ttgatggaac cccgaanac ctncttggtg tatccttgtc 360
 tcttgtgatt tcccatgtaa tgaactctct gagtgtgctc ttcaatggga atgcaatgac 420
 atgattcatg 430

<210> 31247
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31247

agcttgtttc atcatttatg cgagacatag accaacaatgc tagccatcat cagcaagtac 60
 caagaagaat taaatctagt cagcaccac gaacataaag tggcggacga gtatgcccga 120
 gtgtacgcgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcaaca 180
 atgtggatgg accggtttgc ttttactttg aacgagagtc aagaacttcc ctgattacta 240
 gccaaggcca aagcaatggc ggacacctac tccgccctg aggagatcca cggactcctc 300
 agctattgtc agcacatgat aaacttaatg gcccatataa ttaggaactg ctagaagttt 360
 gtatttgcac tcagatcttg actagttata actttttgaa taacatgagt ntatcccacg 420
 tttttac 427

<210> 31248
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31248

tacacttcaa gcatacgtg tggcgtataa cttctctctc ggcaaagtga tatggaaagg 60
 ccttttgggtg ttaaatttat gaggttttct ttattgcctt ttttttggca aaaattgaag 120
 cttcgtgttg tttatggtct gaacagatca agctgtaaat tattaactgt attagctttc 180
 ggtagtggtc tctcccaaat ggtttacaat tccatatttt ntacaatgct tgtctttgag 240
 gcccaaattc atttacattg gattctatct agactcatta atattttacg ggagaaatgc 300
 taccaacaca tgtaacattc tttatatcgg tcgatatttg ttggatattg ttcaacaatc 360

tt

362

<210> 31249
<211> 350
<212> DNA
<213> Glycine max

<400> 31249

gaagaagaag aagttctaga agatgggttca aaaggtgtgg aaaaaggtat atcaaggtca 60
taaaatgccca gtgaagggct tgcttttata gactcttcat ggctgggtcaa gaaaaccatt 120
gaaagaagta taaccttgag aaaatctaaa gaaaaccatt ggaagaagta catctcttga 180
tttttattca aaacttgtca ctggtaatcg aataccaaaa ccatggaatc caatacacia 240
agctttttat gaaaagatat gactcttcac aatctaattt gaatttcaac gttcacatac 300
actggtaatc gattaccaat atattggaat cgattacacc catttaaaaa 350

<210> 31250
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31250

tcataataga tgactagaat cttctcatta tcccttcttt ccttgaagaa acatttggat 60
gatttcttcc atctggattc attggntggt tctctacatc ttctgatct ttctgcagaa 120
taatgacana tcattctctg tagcttcttc atattcataa tcattcatcag aggaacntat 180
cacactaact actttngatg atgctttang caatgatttg gatgatgaag gtttcttggg 240
cttatgga 248

<210> 31251
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31251

cgctatcttg ngacgcttct atgaaggcta catgctcgat cttcgagcaa gtcctttaag 60
gggaattgcc ccctctggag agccgcgacc tactataaca aaaaggtgcg acaaggtccc 120

ttcccttagg cactccccgc gtataatgag gctgaccac aagattattc ttcgcttcta 180
aagttcgaat aggtgcctcc ttggaagcaa agaaagctgg gttttattta ataggggggc 240
accccgaaact acacggaata ctttcatgca caagagctac cttggactct gtgctataac 300
agctgtctac cttccatgtg agcgcaagct ttacacgagc tgatatctat acactaggtc 360
tcatccttag aagactttga taatagactt tgcttaagaa cataactn 408

<210> 31252
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31252

ntaactntta atctcagatt ctttggtttg actgagattc tttatttggg ttatgaaaag 60
aattccctcc atataattca acgtttgaca cttttgattt gatttacttg agtttataaa 120
aggctcatgc cacaaatttg tggcgctgctc taatcatgtc tgaacatgca aacatgatgc 180
atatgaaatc ttaatatctc aatcttattt ttctttgcag atatatgatg tatgcattct 240
atgattcttt ttacatctt aaacttgata cgtcctaagt attttggacc aatgtcaatt 300
gtatatactt ttagcacttc tatgtgagat ccacaaatac gtttacttgt ggcatatatg 360
acgtgcattc tttcatgaat 380

<210> 31253
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31253

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gttacaaca ctaaacacaa gggaccaaca ttccttaagt tcattgcaag aagcaagatt 120
tgcttcttgg ttgatcactg gacacaaaag accaacgtct tttgggttca ttgcaagaag 180
tgggtataac ttcttggttg ttatcaatgg acacaaggga ccaacgttcc ttggggttca 240
ttgcaagaag tgggaataac ttcttggttg taatcactga acacaaagga gggaagtctt 300
ttgtgggttca ttgcttgtaa aggaaattta caagatagtg gaaatctcaa gcgggttgct 360

tggngactgg acgt

374

<210> 31254

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31254

ctattaaatt anatagacca gacttagact tattaattag ttgtatgagc cngataggcc 60
tatatatatg tatatatata tatacatata tatatatcta tatatatata tatatatata 120
tatatatact atttttttggt ccaagaagac totaatcggt gtgagattga ctctcctttt 180
cctttaactt gcctctcacg ttctactct ataaaatata aaatatttat cgtgaataat 240
acttttaaaa aggtatcac tccacgctcg actcttaaag aggtcacacc cgacccaaac 300
aagagtctct gataggtat angccagact cagccctca caaatcatcg tagactacgc 360
tcagggtctc cacagtctgg cctgacctat tctcatccgc tattagaatg tgaattacac 420
acactaaaat acactacttt cacactacac ggacta 456

<210> 31255

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31255

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caattcagct acttcaatta caggtctttc ttgggaaacc ctgacctctg tggccctat 120
ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180
tcctcttctt ttaagctgct acttggtgtt ggggttgctac tatgttccat tgcttttgct 240
tgggctgcaa tattcaaggc ccggtcactg aagaaggcca gtggggctcg tgcattgaag 300
ttgactgctg tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360
ataatattat 370

<210> 31256

<211> 434

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31256

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gagatgttta aatagttatt aaataaaaa aatttaaatt tttatttctt ataatgtgt 120
gtgaaaatgt gtgtccgttt aatctaatat taaactaaag acactctaaa tttttataac 180
atcatctaatt ttggttaatt aaataaagtg tgtgaattat tataagttnt ttatatttat 240
ttttaattta tatgaataaa aataataata acattgtcac attaattctt acaactaata 300
gaaatattaa ataagtctct tgaatattta ataaattctt aaatctaact attgatcatc 360
attttaagtc ataaactata tgtaatatta tcattcaagt gatctttttt tgaaattgaa 420
ctaattgtgat ttca 434

<210> 31257
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31257

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aatgatgttc agtgatgaca ctatgaagga atgggttatc ctgattgagc cagattcgac 120
ccttgaacag tatcagcccg tgaccgagag tatagtcagg atggtcatta gggttatcac 180
gaatggcttg agcaaggcgt tggaactccg agttagagtc gagggattgc ttgatgtcac 240
tgangaagtc aagctgggga acactaaaga cgagcaagga agcttcagga gatggagctc 300
gggaaagagc atcagcgatc acgttagtgg cgccagactt atactgaatg gagtattcgt 360
aacctagtag ctttgaaaga taatagtgtt gctctggtgt ctgtatga 408

<210> 31258
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31258

tgcanaccan atgctcacca ctgctagacg aaaagttctt tttgtgggtc atataaacct 60
cctgctctaa atcaccatta agaaagattg gtttcacatc catttggtgc aactcaaggt 120
caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180
atgtctgtgt aattgattca ttctttttaa gtaaatecct tagcaatgag tcttgacctt 240
tatctttcaa tgttgacctt tgaatccctt ttggtcttaa agacctatct actgccaatg 300
gcctttgccc cattangcaa ctctacaagg tttcaaaact cgttactctg catgaaattc 360
atctcatcct tcatagcatc ataccatana tntgactctt tacaactcat ggcttgctca 420
naagtttcgg gatcattttc aactgcaata tta 453

<210> 31259
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31259

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agcaaaagaa caagcttcca caacttatga tccaacttgg atgttggaag ccattctcgg 120
atgtcacaaa cttcaataca gtcagcatct ccacaggcac aaacagaaac attaaaagat 180
gatggtctat cacgattttc attgaattga tccatcacct ccgggttcagt gctctgaagc 240
tgacgcatcc atctcagaga cttaattggc tgtgaaacat gatgtacggc agctaacttg 300
gatgagattg gatcagcaac tgtctgaacc acaggtgtgg aaactggaca tacttcacaa 360
gccaagagc tatcatcagg atacaagct 389

<210> 31260
<211> 428
<212> DNA
<213> Glycine max
<400> 31260

tagcccaata atattgctaa caataatggg aatatctata tttcttactc cctccctaa 60
actatagttc acttagcatc acacttgta caaagtatta aaatgtcgca acatctttaa 120
tgtatctcag aatattgta agatcatatt gcaaggtatg aaagttgagt ctcacattga 180
aagtttgga tttaatgtag ggttttttag gccttcacct tcatttttcc aactacaatt 240

gatggccttt atggtgtagt tctggtaggg tottaataat tgggtattaga gcttcttcag 300
 tgttggttaa tggtggcgct acggctacca tggtggaatg gcatcatggt tttttgtca 360
 accaccatca ggaaattgtg aagggaggcc agttatggtg gcttctatta gacaatggca 420
 tctttata 428

<210> 31261
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31261

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 tgaagcgcaa atocacttgt aattccaaag tgtcaaacct ttcaccaact gggtcggcaa 120
 caatccgtgc ctacatccaa tccccaagca acctgcgggc cttgagattt cttttcaacc 180
 ttgtaaaaat cttttaacaa gcaaagatcc acaagggatg taccctccct tgttctctnt 240
 gaacctagtg gatgtaccct ccactagaac tgatccacaa gagatgtacc ctctcttgtt 300
 ctcatgcaac aacccaagta gatgtactct ctacttgtag cacanaggaa tgtaccctca 360
 atgntgtaag acatagatct c 381

<210> 31262
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31262

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 ctttgttctt cgtttgaagt cttgagtcca ttgaagcatt taatgctttc ttcattgcaa 120
 gttcatgatg aaggggctag tgtgctttgt acttcattag ggaagtcact tttttcatca 180
 ttgcaggctc ataacaataa aatgcacctt ttgatgaggg tcagcgtctt ccaaactgtg 240
 gacttcattt attcttcata ngactttgac agatcctacg agaatttttt ggcattgaaag 300
 aatcttagac agagagtatt aaataaaggc ctttaagtca ctacttaaag gttatataag 360
 atcgtcttat gaatgcatcg tatgaaactt cagacgtaca aatacaaatt atgatctgat 420

agcatattag acacaacttt tatcatttgt gt

452

<210> 31263
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31263

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tgttacttca ggcttaagcc accagctggc ctggacgagc tgggcggcaa gtcctctccc 120
tattttggct ataaaagggc gtgggaggct gaaagaaagg gttcaacacc ttgggaaagc 180
atatttcact tanaattatt gaaaagaagg agaaagaaga tgaaaatcaa ggtcgagggt 240
aacacttctg taaccaaadc cgtgaatgtt ctttgccatt cttcgtcccg tcttcacggt 300
tcacgtcctt tcgaccgggt atgttttcaa ttttaagctt tgaattcatt ntattgcacc 360
ttangngtcc attcttgctt tgtatgttnt catcttcac tgggtactt tcg 413

<210> 31264
<211> 432
<212> DNA
<213> Glycine max

<400> 31264

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gaatgggggg aagccaaaat tcaagtgtgt attatttaac taaaagagtt tctgtgcaag 120
ccagtctttt gttcttttatt tgcgattttg cttttatttc tttttctttt ttcttgcaat 180
cttatgctag cttctctaga ctttgctttt aatcatagta tctcattatt gattttcttt 240
ttcgtgatg ataattgga gtggctatca atcattttac taaattcttg ctgattgat 300
gcagttctgt tctatctcat tatgtccctt cttgtccttc atttttcgca cgattataat 360
ttataaatta attgcaccat tgaccacta gaacaaccta tttttcatgg aaaatataag 420
aatctgatca at 432

<210> 31265
<211> 397
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31265

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ttgaagttat gtacaagcac tgcagctttt acaaaaataa gcaactgcagc ttattttaagg 180
cagaaattct gcagcatctg cagtatgtgg gtggaaaaag ggtgggagtg gaacttttaa 240
tggagaagac actngtttga cagagagctt gagatgacag attgtttccg taatgatgtt 300
gctggcagca gtattcagat tcacaaaana agatgagtggt atctggaaaa tagaccctac 360
tggataatat tcggtaatta aaggagagac tacaaac 397

<210> 31266

<211> 445

<212> DNA

<213> Glycine max

<400> 31266

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ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgggggggt tttgtttcat 180
tggacaactt ggtttattgg ctatgcttca tgatgtattt tgggccatac ttgatgtaca 240
ttgtatattg gttaaagtgt ggacatgctg aatgaaatgt tgtttctcaa aggctataga 300
ataaaaaaaaa aagaataaaa aaaaattcaa aaaaagaaaa ggaaaagcaa taaagttgag 360
tgaataagat cttaaattggc acaaaactctt catggttaat tcttatcttt acttcttttt 420
attctcttat ctttttctta atatg 445

<210> 31267

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31267

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gtgagtaata atctttgcat gaatctctga attttagaat gaaatgtata aatgaggaca 120
 tgatgaaggc catgattgta catacacaag ctctctaacc aaaaacctta ccttgaatga 180
 taattgcac ctttgctccc tgtatangct gaatgatttt gtcatgaatt gaaccctgaa 240
 cttaaataat tatctcctaa tacctttggt agattctagg agaacatatg gttcaagaca 300
 acattactct anatttgggg gagaaaagtn gaacagaatg aanagataga tgtaagcatc 360
 agcacacaca ac 372

<210> 31268
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 31268

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 tttcttccaa tagtttggtg tgagacaaat ctaaaatctc catcattacc atgcttgata 120
 gctgctaaag aattggtgag gtaagcatgc ccatgcctac ttctatcagt ctaacatggt 180
 gaaatgtcgg agcttcgtgc atcaagcaat cctctgggta tattttataa aagaatcagt 240
 tctattacag aacagtataa ttgccacgaa tattctttct tgttttatg 289

<210> 31269
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 31269

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 aaaagaaaac taaatctaaa atatcttaaa gtgtgggggt ggctaataaa aggtaatatc 120
 cctattaata agaaatgaaa aattgaaaaa aatggtaatt ggattttggt ggatattttt 180
 tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaatag 240
 ttactattat gcaatctaga gatgttactt cctttgaaaa tctttttcct taacaaataa 300
 atccgtaa atcttatatgg tttgaaacaa actcccaaag cagtacacaa aaagttgatt 360
 aagttattct tt 372

<210> 31270

<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31270

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tctcaaggaa tctttctcca aaaagcttct caaggaagtt ttctcaagaa agcttctcaa 120
ggaagctacc tagtctataa ataaaaacat gtgtaacact tgttgtaact ttgatgaatg 180
agagtcttgt gagacacaac tcaaagttca atttctctcc ctttttcttc cttcaatttc 240
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agcttcttat ccaaggtcca tcttggtgct gatgctcctt cttccatggc ttattcccta 360
gtggatggca cctcctctca cctcttctnc tttgtcttcc gctgcatctn catggtggaa 420
aatcaccatt aaaggatctc attgaagctc 450

<210> 31271
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31271

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tggttgatct attgcgaaag caagaagcaa actcgttctt gacagagccc ttcttaaact 120
cacacaagct ttctgaatat ctcttgatca acttccaatc aattatggcc tttaaatacg 180
gtacaccgat atctaattat catcctaate gatgacaata cactaaagag aagcctaatt 240
gatacgacca taactaacag ttatgctaag taataacaaa aatgatatcc ctaattataa 300
catcttatct g 311

<210> 31272
<211> 240
<212> DNA
<213> Glycine max

<400> 31272

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aactagacca catgccttat tatgcaaatt ctgtagcttg cgagttatat taataactaa 120
 caaatccatg tggagaaatt atatacagca tagcctgaca ttgagacttg gattctgcgt 180
 gatacacttt taccacgtga caactctaaa atggagcggtt ctctttatca ccgcaagctg 240

<210> 31273
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 31273

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 taggagcaaa attggaaacc ttaatgccat gaatcattat ttgtttaatt gattggaaat 120
 catagataac agtatttcag taagacagta aatgagtaaa gagaaatatg tctttatctt 180
 aatcctacgt ggaacctaat aaaacacaat agaaagacaa cacattttac tatcaaaaca 240
 atccatatga gaatttatta aactttttga tgaataacct tcgtttgatc ataacaattc 300
 gtaatagtca tttttgagat attgataatt aattgtaata tcattcgact attcttagga 360
 tcattgatta tacctataaa taatataaaa ttttttagt cgtcaatgat cct 413

<210> 31274
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 31274

ctatcagatt catccgcgcg agaatgcgaa tcgaaaaacc ctcttttgtc cctctccctt 60
 ctctcaaacc ctctccaga gggtttcttc gacgcagccc aaatatcagt ttcgtcagcg 120
 cgcgaaaggg gaagctcccg attggatccc ttaccccaaa acattttctgc tggctcgta 180
 aaaccctaatt gaaccccaag ggattgaaga ctc 213

<210> 31275
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31275

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tcatggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgttacat 120
gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180
tgtctccttg gtaagcaaca ccgatttcct tacgcaacag gcggagcatg gagagcgaaa 240
gatctattgg agctgataca tacggacgtt tgtggaccaa tgaggacgcc atcacatgag 300
aacaacaagt acttcatact cttcattgat gacttctcta gaatgacatg ggtatatnt 360
ctaatagaaa aatcaaaagt ctttggagta ttcanaaagt t 401

<210> 31276
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31276

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cctcggaga aaacaaaaaa agaaaaagaa agttcccgat caaagatcgg aagaaaacaa 120
aaatagaaaa aagttcgcga tcaaagatcg gaagaaaaaa aaagttaccg atcaaagatc 180
ggaagaaacc accacttgaa gtggtcctct ccctttgatt gccaaccaa atcttgtgca 240
ctagtacat tctcgtcccg cactaaacaa aaacagaaaa gggaaaggcc aaaacactca 300
gccaaatttc tcaccaaaac accattcccg aaaatgtcct attgatccat gatcatgcat 360
gtaatctttg atttgatagg aaatgatttt canaatcaag tcatgacata tctatgggtt 420
ggaattagga taaaacactt gcctatgtga 450

<210> 31277
<211> 409
<212> DNA
<213> Glycine max
<400> 31277

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acacaggcat ttaagtcatt gttaaacaca ataaacttca atcatttatg attacgcatg 120
attacacttg cacttgtaaa tatataagca ctcttctgaa agattaaacg tactgccgac 180
aaactaggcc ctctcccccac gacagaaact atcatgtggt ctacactcta aactatatag 240

actgtaggca gtattacatg acagataaat gatgctaatt gttcatcaat tgcaattgta 300
aatgttacat atattttcgc gtattgtagt tgagttgtct tacaagaac actagttcat 360
gtcagtagat actctctcaa ccctgactat tcatagtact ataagttgt 409

<210> 31278
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31278

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tccgccgcat caacgttggc cacatnttag ccaactatag acatcatgtg agtgaacagt 120
aattagatta ctgaaaacac gtaattctgt gcgatgtaac ttgggacaat tcctttgagt 180
atgtctacta ggctagatac actggcgata catatggatc ctattatgat tgacattgga 240
agaatataca atgacgtacg gcatattcta actcagatga taccatatca actgtgtgag 300
aaaagagctg tacgtgacct ttgaccggtt aatgacgcat catttatatt tgttttgtat 360
caaattcact cgtacagatc cgccaacata tataagaaca gtgtatgatc gtagattaac 420
aactgcttac cggatccoga cn 442

<210> 31279
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31279

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cggacgtctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120
tcgagaaact aaaatgggtca taacttttca cacggaagtc cgattcaggt gcataatata 180
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattgg cataacttgt 240
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300
gctctcgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggacataa 360
tatatcgaga cgctcgaaat tgaacaacgt atgggtgtcga gaaattc 407

<210> 31280
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31280

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 gattcaggtg cataatatat cgagaccctc gaaattgcac aacggaagcc cttaagaaag 120
 acaaatggtg ataacttttc aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240
 gtccgattca ggcgcataat ataccgagac gctcgaaatn gcacaacgga agccctcaag 300
 aaattcaagt ggtgataact tatcacacgg aagtgcgatt aaggcgcata atatatcgag 360
 aagcttgata ttaacaacgg aatgtgtcga gatattcaaa tggtcataac ttatgacaca 420
 gaagtccgat caggcgcata ata 443

<210> 31281
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31281

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 ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120
 tggggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccacatga 180
 actaccccaa ctgaacatag tccgccatat cccggcctca cccacacccg taaaaggatc 240
 tgttcccttt gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300
 cgagggcctt ggcaattacc cattctcgga tttggcagat ttatgtcttg tgcccaacat 360
 cgtcatccct cccaagttca nagtaccaga cnttgataag tacanaggga cgacat 416

<210> 31282
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31282

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ctaacgttga gnttctttctt ctgccttgta gagctagatc aaacatcact tggatgtgat 120
attcaattaa agtactaagg ataacaaagt tgatgggggc aacatttgag ttgctagaaa 180
agacaacaaa aacatcaaga acctcctttt tcaactgaaga atcttcattt gaggtgttag 240
cctacttgga cgcagggttca agttgacata ttaaaataac ctcaacaacc ttggctgcat 300
tggactcaac ttgttcgtta actttttgca ttacaccaga gattgagaga tcaataagaa 360
cacatcaaat atatgatgtg gcaatgaggt gtagcaagca aatgctca 408

<210> 31283
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31283

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ttgaaaaatt tgtaacagga gatagtgtgg cagaagagta aggatatcta tcttcccaaa 120
gtcttgagg gcaattagga ctttgttctg gattttatgt catgatcctg acatgtaagt 180
gtatcgtgtt tgagctocaa ttataagctc aacaagcttt gctgtaacat acattggaaa 240
aacagatcag atgcttaaag tagtctatca agctganatg atgatgacaa gaaagtaagg 300
cactaaaagg gaaacaaagc aaacaaataa gtatgaagct cacctgtgag aaatcccatg 360
acaggtatag gtccanaac tttctcagtg ctttcaagtc tttgcctaaa aca 413

<210> 31284
<211> 421
<212> DNA
<213> Glycine max

<400> 31284

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cattcaatga aatggagggtg ttattgatac caatgccac agtatattgt ttcctcaagc 120
gagattagct ctatcttgcg tcgttcaata taccttcttt ttgatagcga aaaagacttg 180

atggtcgaat ctaattacca ctcacaactt aggcaaaact ttacgtagaa atgagttatc 240
 ctaaaatata aaccataaac caaaagaccg gatcagagaa cattcagact gctattcaaa 300
 ctcatacatt taaatgtacc ttgtcaagac ttcatgaaca taagaaacgg taaaccgaat 360
 aaagtactga aattggctgt aaagttaat acaggactat cttgcctaca tattttctgc 420
 t 421

<210> 31285
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 31285

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 gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120
 tgatggtgtt cctagacaaa accgaattga tggattataa ctcaacattc ctccatttaa 180
 aggaaagaat gatccggagg cctacttggg gtgggagatg aaaatagagc atgttttctc 240
 atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt tttccgacta 300
 tgctcttggt tgggtggaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360
 tgatacatgg acggagat 378

<210> 31286
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31286

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 tcaatttcga gttctcgcac atattatgcg cccgaatcgg acatccgtgt gaaaagttat 120
 gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180
 agcctgaatt ggacatccgg gtgaaaagtt atgaccattt gaatttgcca gagtttccga 240
 tngttaattt cgagcgtatc gatataattat acgcctgaat cggacattcg tgtgaaaagg 300
 tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc tcgacatatt 360
 atgcgcccga atcggacatt cgtgtaaaag ctatgacat ttga 404

<210> 31287
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31287

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 gtggctgttc ttgactctgt catcttgaag gtgtacaatt gttgcttcaa gcatagccga 120
 tttgcaaggg actttgtcat atacaatggc tctagtttca accacattga gggtgttgtc 180
 ctttctcttg caacttctct tanagcttta tctccaagca atagaatgat tgcacttcgg 240
 gatttagcaa tcactcttga tttctcctt gagcttagag attcaaacat ctttcttct 300
 cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360
 aaccggaagt cattttccct tanaacttct caatatcgta c 401

<210> 31288
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31288

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 tcaatngata atggtggact tctcttagca tcatgggggtg gtggctttgt tctccacatg 120
 ctcaggatca caaaaacaaa gtttgataac atttggttgg cgattttgat ccgcaacatt 180
 ttaaggattg ctccactttg gctcctgttt ttggtgccta gagctgaccg cagctcttca 240
 attcttccat gtaaaagcat gaattcagag gtggctatcg acccttcaga caccaaaaat 300
 gttgaattgg tgtcccttgt acacagtgtt gatggtaaatt agtggaatga aaagacattc 360
 ttttgatttc tcaattccaa atacacgaaa ttaccaagcc agtgtagaat taaacgtgca 420
 atttgttttg atttaattgtg gaaaaaaaat aagat 455

<210> 31289
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31289

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ttattggaga ggaacattga gctctctacg ggcattgttg atgaatttta cagagagcta 120
caatagaggc agtggcaccg agtactcacc agactctcgg aaaagcaa atagacatcgct 180
ctgggtcaaag aattctactc aaacatctat gacccaaagg atggagctcc aaaatattgc 240
aaggtgcggg ggcattgtgat caagttcaat gcagagacca ttaatgattt cttgaacacc 300
ctgggtcgtcc ttggtgacag agaggaacan ttggcatact cctagtactt gcacacatac 360
ccagaccacc aagcgattgc ggaaccttat gcacacccgg a 401

<210> 31290
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31290

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gacagaaatc gtaaaaaaga aagatagggg acgaatctcc aaaagacaaa gtaagtggta 120
gacggaggta gacgaccgtg aatcataaaa aaaaaaatg agagaaaaat atatatgaat 180
tgtaaaaaac caataatcga aaatatgcag aattggaacc ttgagaacga caaagggaga 240
tgcggtggtaa caaatcaagg ttttcaaca agaattttta gacgggtggg atgtgggagg 300
ctgaaatcaa aggcacgtga ttgagtaaaa tattttaatt agaattatta gattaanatt 360
agatcaatgc ataaggattt atgtaactct cttagaatta tatatactgg aatttaattcc 420
ctttctcata tatattggta acaaaacgta ttgtaa 456

<210> 31291
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31291

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aatagcgacc gaaatgaaat accaatacca cacatccaat tagaaaaaat aataaccggc 120
cctaanttaa tatectgatt tctcaatatt tattatttaa gggcggggac cttttatata 180
cagtttaatt cggccgccag ctttgcgtc tctttcgtct ccgatcattc ccgtacgtcc 240
tttgcagttg actctcattc tctttctctc tctacacctc tctctctctc tctc 294

<210> 31292

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31292

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ccaaattaat catatataat aactaggtca caaaaactac gcaagtggta acaactcaat 120
caacttagaa catgtttgac aatcaagtgg aaaacaactt ttgagacaaa aatatttttg 180
caaaagaata aatgcatggt tggacccaag ttagaaatga tgtacacatg ttacaatgca 240
cattcaatag ataaaaacaa aaacaacaat cttgatcttt tagtaaaaaat actctttctt 300
taaaagtatt ttttcacctc attgtcaaac atgtacttag aatctcttgt ttttctttca 360
ttttggtttt acctatttgc atatatacta gagcacactt gttgtaacaa t 411

<210> 31293

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31293

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caaaactctta aatatcatgc accaagctgg aacaagggca aaaggctagg caatccttgg 120
ctaacaagtc aatagcagat tgagaatcag attttactat aagaaactta aagccacgac 180
tccaagaaat ctttactcca atgaggatcg ccataattt agcattgatt acagaacaat 240
tcccaatatt aactgagaat gagaaaatta catttcccat atgattgtga agtaagccac 300
caacaaaaac tataaaaatc acttttggat ccatacacaat taagcttaaa atggtcacaa 360
tgcggttgct ccnaaaaaat attgntctaa ttattatcct gatcactacc attccctc 418

<210> 31294
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31294

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ttatgaaaac agtctaagca atgctgggtgt tttattgggt tggaaactaaa cttaaacaatg   120
gttgtgctac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg   180
atcggatatga ccaaggagga tttggataag aatctgggga cgatagcaaa atttggaact   240
tctgggtatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg   300
aatatgttaa ttggagatgt gtgttatttc aacatttggt gagaagatgc caacaagtgg   360
agatctcaat ctgattgcgc agtttggagt cagcttctac tctgttatct tgtggccgac   420
tat                                                                    423
  
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<210> 31295
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 31295

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gaggaagctg cctgagaact tagatgagtt gtgaggattg gaagttctaa gtggacagac   180
atccccaccac tttattcttc atccttctct cttatctctt tttgaaagga agcttccagt   240
atgggaggta atctctgtgg tcttcttgaa gacttgagac atactgatat ctattaatgt   300
gtttgtgggc ctatgcttaa cctcttctcc tgctttcttg atccgtgatg ctgggtttga   360
gagcattgct tggg                                                                    374
  
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<210> 31296
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 31296

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 gcttacctac acccacctct ctaatagcta agctcacctc cctgagatga gaagctaaag 180
 cttagctact caccacctat actagataag ctcacctca ttccacaaat acatgacaat 240
 accacataaa agtcctact actcagacta ctcataatgc cctgaaatac acggctaaca 300
 tcctatacta ctagaatggc caaaatacca tgcccaatag aaggagcaac ctattctaac 360
 atatacaaaa aaagagtggg ccaaccttga cccatgtcgt ctaatatcta c 411

<210> 31297
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 31297
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 gtagacggag gcagaccacc gtgaatcata aaagaaaaaa atgacagaac aacatatagg 180
 aatcgtgaaa aaccaacagt cgaaaatatg ctcaatcgga accttgaaaa cgacacaggg 240
 agatgcctgg gaacaaatca aggtttttcaa caaagaatct cacgacggag gggatgtggg 300
 aggctgaaat cagaggcacg tgattgagca aaatagtcca actataatta ttagagtaaa 360
 accagagcaa tgcataagga tctatgcaac tctcttacia tcatatatac atgaat 416

<210> 31298
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31298

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 atttttttta tagtaaagat tacaaatatt attcccgagc gataatccta ctogagatta 180
 ttttgtgtga naaaaatcaa ttagaaaaca taatatcatg aattaaacaa tcttagtttt 240

catagaacca aaaattatca ttacgaaga caatcatact caaaattatt gtggatagca 300
aagttctatt ctattataaa ataattctaa attacttatt caataatatt atagagtaca 360
ttagttgtaa ttcttttatg atgtagacca taaatattct tcgcgggagg caccaact 418

<210> 31299
<211> 486
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31299

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tgtgcgtact gataggtacc atgatgtttt ttctgtgggt tgacacaaac cgggtggagaa 120
gacactgcaa tggcactcct ctcttttctt attgacctg tagaccataa tcttttcgcg 180
ttcacgtttg tggaggacac gtaattcaac tctgcctttt tctaattcaa ccctgcattt 240
ttccccggcc aacaccccat tcccatagac tgaaggcatg caaccacta gctgttcata 300
tgacaacact ggccaagtgt ctaccatatt gagatcattc tctctcaaca tgggaggagg 360
tacttgtgcc ccaactctc cattgctgag catattatca aggtcacgc cttttcctaa 420
aatattctga ctgcatacgg caggaccaca tctaattgac cgatactgcc tatgacgccg 480
atatct 486

<210> 31300
<211> 405
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31300

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tcacgaagaa tggcatgac actagctacc atgntttcta tgagttccat tgcctcctcc 180
ggtgtcttta gcttgatatt cctcctgcg gatgcatcta gtaattgctt tgattgtggg 240
cgcatgccat ctatgaagat gtttagttgc accggttcac tctacccatg tgtaggtgtt 300
ctccttagca gtccgtggaa acggtcgagc gcctcgctaa gggattcatc gagaaattga 360

tggaaggaag agatttcctt cttgccttca cagtctttga ttctg

405

<210> 31301
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31301

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aatggcaaca aacttgagca atccttgagc tttcaagatc atgacaaacg aaagacaaat 120
tgaagctgtc ttctgaatcc agaagcccta caatcaataa gacaaggagt gagtttcaca 180
tttgaaatca ctaaactatg tcaaacgaag atttgattat gtcaaacgaa aatttggtat 240
tcaagtttca tactcctttc tctactgtct ctgatagtat aatacacatt tattatcaat 300
ctatggacac cattctgtct tagcgttgct agatatcagc ttttgcgctt tatttaataa 360
acatgccaca tatgtgatgt gaactaaaat atgtcaca 398

<210> 31302
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31302

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aatcaccatt aaaggacctc attaaagctc aaagatccag cctccataga agccccacaa 180
gtttttgtca agaggagaa gggaagaaac aaaagaattc tcaggcgggt agtcatttga 240
atcttttggc aagagaaaga agtgaatgaa gaagaagagt agcacaagtt tttgaacaac 300
gaacttttct tggaagagaa agtattgaac aaaanatcta tganagaaat ctgttgatca 360
tnaaaacaaa tcaatctttt agaatganag gaatcagtct 400

<210> 31303
<211> 407
<212> DNA
<213> Glycine max

<400> 31303

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acgagacatc ttgccaaaca aagtcagggt cagcataact cgcccggtgt ttttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtca gagaaatcaa atgttgtggt cctatttatc tatgggtggat 300
gtacccgggt gagcgataca tgaagatctt aaaaggggat acaaagaatc tatatcgctc 360
ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<210> 31304

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31304

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aaacattggc catggtgaac atgcaatttc aaacttctta agacaatcat cgaactgac 120
cttggaagga caataaacca aactccccca ggcattccata acataatctt atgcattttg 180
tgaccaacca nggatttaca tctttgacat tcttgtaaat gtgaaacctt cacaacaagt 240
gggtacactc anganatata gttttcactg cattcattaa tgctagaatt ttatcggtag 300
caataactcc aaagagggca tcatgtctaa gaaaaagact tcgaaaccgt tctatagccc 360
acaccacatt atttagacgt tct 383

<210> 31305

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31305

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cttatcacc atatcggcaa ttagaaaagc ttttaatgga agctaggaga atgaaagtac 120
actgaaaccc ttatgctgaa acaaaaatta tgattgggtg aaagatatcg taagtatctt 180

tgggaagacc ccaaagaagg aatcatttga gaagaacata tggaagaaaa ggtcaatatt 240
 ctttgatctt ccatactggt ctgattttaga tgtacggcaa tgtaaagaca taatgcatgt 300
 caatattctt tgaagtcattg atttccatac tgcattagag gctgtcgtcc catgtgacag 360
 gcgcgtggga tgctaatacc ttncctgtgc gtaaaaaatt ccgaaccctc attttcaaga 420
 tatgcagacc ttcgtc 436

<210> 31306
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31306

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 ttgtactgct gcacttggtt tctatgatac gctatctgct cgttcaagta ttccatgttt 120
 tgtttggggt tgctgttgta attagtggct cccaccgtct tcaatcttag tctcttctta 180
 tcagaagcct cgagttccgc catgtattcc atggcaaaat aaagacttct ggtaaaagaa 240
 acaaactttt ccatttttga gatgatcttt ggggtgtttc gagcaccgta actaagctng 300
 cggaggtcga tgaggcctag cttgaggtcg gcgtacacga tgtccaagcg gctgaagctg 360
 gggtcgggagc atttccggcc gaaccgtgag acagtgtctg 400

<210> 31307
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31307

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 aggtgtgaca atgctaacaa gtgtcttttt acaaaggaga aaatgtggaa gttttctaag 120
 aggggaagtt tctttaatgt ttgtctttat tataaaatga ctttcgttct tagctaacct 180
 cttggaggag acacttacct ccttatactc ctccttaacc attaatgggt gtcattcttc 240
 ttgggggtag atttattcac tagattcttc cctttttgct tcttcacttg cactagagga 300
 agatgaagaa gtagtctcat cttggctact ataaatgtct tggctcctca taatcatggc 360

tttcttggtg gggcattgaa agtaatgtgt cctttccaag acatttanag cactttat 418

<210> 31308

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31308

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 aaaatgatca tttttttaca agttgggttaa cggctctggt tacacttcta agttacttcg 120
 gatgtgtttg atttagaaga agaaaataga agataattgt aaaattcaag tagagcgtaa 180
 aagacatgaa ttccgtgtga agaatacaca attttctttt atttcttcat tcccacccta 240
 atccaaacat cacctcttgg ccttgcactt taaagcgtca tatcaaattt aaagtgtcgt 300
 gatcaaagca tgaacacacg atgttttgag gggttatgtg actgtttact aactttcaat 360
 gtgattacta cttaaaataa gaaatgttct cttcaaacat gtgggtggat ngatatctatt 420
 gatagat 427

<210> 31309

<211> 448

<212> DNA

<213> Glycine max

<400> 31309

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 cgatgatatt agaaaaacgg ttagtttcat gccttcacca caccactctt ttctttgatt 120
 attgtagata tgttttaggtt tgcggggtta tgaaaaagat cttttttttt ttgtcttact 180
 agtgatggat ttctgatgcc ccacttgga atattatgga atggtaaaat gtaaagatgg 240
 tagctttggc taactttgat ggattcctga aaccctctt ttggtatttg tacatggtaa 300
 cgttgttggg attggaacat tgtcattcgg tggaaagagg gtccaaaatt gtctggggta 360
 tgtatgcact ctggaatgcg tgttttgaat ttttttcta tgggcttatg ggtcctgaat 420
 tgttgggtctg cgttacttat catttgat 448

<210> 31310

<211> 380

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31310

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ataaaaaaga attggatata ttgggaatta ttaagaaagg aagagagaga aaagactgac 120
tagaattgcg atgatgtttg aaaccaatag agaagtgaag ccaagtctta gtgattttgt 180
gccacaatc cattgagagg agagttatgt gaaggaaggg attatggata tatataattg 240
gcaccgaaac ctggaacacg ttgntgatg gatgtgccaa gcgtctcgtg gtggtggcaa 300
tacttactag tactatatat gatagatcga tagaatggtg gcttggatat ctgagtttac 360
acttgtctcc ttttcgtatc 380

<210> 31311
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31311

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tctctttcat tgcgatattg atttcttctt tgctctttct ccattaattg cttatatatg 120
gcattcatat tgtgttgcaa attttcgcca gactccatga aatctggggg gaatgaatgc 180
atataggagg tcaaactact gaatttttgc tcctctccgc tacnggtcat acgttggaa 240
tgtccataat aaaaaaattg atccaagaca ataatatgtt acgataatng tatgtgacaa 300
tatggtgtgc gtgtgtttgg ggcgaatctg caatgtgagg aataagtga cctgtcttt 360
aacatatagg cagggttgga ctacctaagt gtgttgctgg agatgt 406

<210> 31312
<211> 568
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31312

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nnnaagcggc ggggtgatgc ctgctancac ngacacacac aanactcaag ctggccgctc 120
 tntctctctt tggtagaggca cacggcaaata ttttactggg gtattgtaat aacaactcaa 180
 tgggcgcatt accaggggtga tgcaaagtat aaaatctgaa tgtaaaatca ttcgaaaaac 240
 atgggaagag gccttgcatc cttgcgccta tgaaacaaag gaaaggatca ctctacttgc 300
 tttggcggaa aatcccactt tggatatcaag cctaaactct ttgaaggcta actcaaagag 360
 gaagctctca gtatctgttg agtctaatac agagagatca aaatggggtt atatatatc 420
 caagagagaa tatgctacca ttaacccan cctgggtgat gtaattctta accctgtgta 480
 acgcattaaa ctaatatgaa tacttcaatg taatcattcc ctttacctca atgcgggatgc 540
 taagagtaat tcatgtaaca tcgaaatt 568

<210> 31313
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31313

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 tgcgaactga accgaagttg tgtttcgggc gactggcatg ttctcatttt gtcggccaag 120
 aaaacattag cccaccttgg cataaaaaac atgattcacc gatattgaca ggaaaagaaa 180
 aatgctagcc gacgtcggcc aggaaagatg accgaccgat gtctgaanaa gaagcatgac 240
 cggatgactc cggtcgaaca tttcctaaca gatatcatcc aagtattatt cagggattga 300
 atagaacaaa caatagccga catcggtagc taaatagccg tgactgatat ttttcggccg 360
 acattgcgca atntctttta c 381

<210> 31314
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31314

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 nnnnncggg ggggnttgat gctccttgg acannccaca tanaanac aagctncacc 120

tgcggccata tgcagcgcc ttaaccaaca cactcttttt atatttgatg gctacggact 180
 cgaactcctc ttcgactaac ccggtcttt caagctctgg cttaaggct tggacctcat 240
 cactctcttc cgaagctcta accacaccgt atctcacagc ctctagatct gggagccaat 300
 ccaatccttg tgtgtcgact ctcatccacc tatgaaagcc gccgacgatc ccaacacctg 360
 ctccccctaa gcctcttgtc cttctctcac gccgcacccc atgccttgcc aactccttgg 420
 agcacccctcc cgtttgggtc actgaaacca catgcaagaa atggacgatg cctccgtctg 480
 atggcacttc cctcatggcg tagccaagct gcctattgcy aggaccgcat tatattaaca 540
 caacccccag tgcccatcac gagacg 566

<210> 31315
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31315

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 tggcagtgat attattgacc agccctccga aaccttctac cgagatgtct tgggccacat 120
 gggcctcgtt caaaaccttc actagcagag cccgatgagg ctgagagctc atgagtaact 180
 ccaacaacga gaccctggcc ggagttttgt tgagctgttc gataaccttg aattcgctct 240
 actgaattat acggaggaac tcactgggct tctctagtga cacctnnctt tttaccatcc 300
 tttntctccg ggaggccttn tgccggaata tctttattcg aagcgtgggg tgcttcgcca 360
 tcttgttcct tcaccactat tccttttccc 390

<210> 31316
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31316

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 aggtcgattc tagcgcatca catatcgaga cgctctaaat tgaaaacccg aagctctcga 120
 gaaactcaac aagtcataaa ctagtccacac ggaagtccga ttccggcgca taatatatcg 180

agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240
acagaaatcc gattctggcg catcatatat cgagatggtc tgaattg 287

<210> 31317
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31317

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gggaagcgat cgcgcaccgt gatggcattg agagccctat agtctacaca aaatctccat 120
gatccatctt tctttcttac cagcaagact ggggatgaaa atggactcga gctaggttgt 180
ataaaacctt tcgcgagcat agtagctacc tggtcttoga tctccttctt ctgaaagtaa 240
ggatatctat atggtctaac cgttcacggg gttgagttag gcaatagatt gatgggtatga 300
tctgtggatc gtgatgggtg canggtcgtg ggaggttgga agaggggaagc gtatntgggtg 360
atcaatgtat tga 373

<210> 31318
<211> 357
<212> DNA
<213> Glycine max

<400> 31318

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ttagaaatga aaaactcata agaagataag attaataaaa aaaatgcacc cttgatttgg 120
atztatgatg aaatgacatt gttttataga taaatattaa ttggtagcat tattagcttt 180
tgctagcgaa gaaagtaaac ccataatctc ttctctgtcc attctccatg gatcatggga 240
caactttata tctcattctt tctgatagta cataaaccct tgatgtgtga ttattataag 300
cacgatatat aaggtgcagg gaaattacta ctcatctggg cttgatactg acatgat 357

<210> 31319
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31319

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tagagtttat ctattttatc ttagtgagag tgatcctcct aagttcttga gtgattcgag 120
aacaccctga ctatatcaaa ggactttcac aatctttgtg tgttgccctc accggaaaga 180
gtgattcttt cctttctttc atcttcaacc ttgttctttc aaaccataat tccagaaaaat 240
ccacttttgc ctagaattaa ctggtggcca taactcccat ttacacgctc aaattaagtg 300
attcttgagc ctaaattgaa tntcaaaaatg agatctttca gctcgttntg gaatcacctc 360
atttgagacc ctggagcttg agttattggc atttctata 399

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<210> 31320

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31320

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tgccagaata atgggttggg tacagattat tctgctattg ttggttatct tgagaagcct 60
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acacttctac aatgtgaggg atgtttctga tggttttgat gtcaaatac tctctgatag 180
agttggagaa gtgatagaca agttggaaac tttgcaggcc aagcttgact caaaagtgca 240
agaaatggat aaaaacaaag gcacctagtt ggacaagaag tttttaagg atcaaatagt 300
tatgccatct tataatgcta atgttgctct aatgcgggat agggttcccg aaggtgatga 360
agggatgaag tccgcagtga aaaacgatca tgtgatcaat tntttcatca ctg 413

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<210> 31321

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31321

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tgatgatctt agtctatttg taaaaagatt caacaaattt ctaagagtca gaggaatatca 120
aagaaaaggg cagaagattc atcctctact ccaaaatggt atgaatgcaa tcaacctaga 180

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catctaagga ttgattgccc aattttcaag aaaagaatag agaaatttga aaaaaaagtt 240
 tttaatgaaa agaaggctaa gaaggcctac attacatggg atgacaatga tatggactca 300
 tctgaagatt cagaanacga agttgtaaat ctgagtctga tggccaacaa ttatgaaaac 360
 gatgaagagg taacatcttc tgataacaac ttatccattc gcatttgatg aatac 415

<210> 31322
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 31322
 ctgataccac tgggtggagta tcttctgtat atggatatat actttgtaaa gaaaaaaaaa 60
 tatagtgtat gaaagaatag tgtcaatatt ttattcatgg actctatata tatagataaa 120
 aaaaatgtaa caaaatttaa atattatcaa attattaatc tcctaaatct aaaagatacg 180
 tcaaactctt atctttatct aaacaaattc ataataattc tatattaaat aatatactca 240
 acgcttgaaa taaataataa attattaaaa aataaataaa ttactccttt gtaaagatat 300
 catacatatt tcaataactt taaacaagaa tttggattac gatctttag ataaaaaat 360
 gattaaaaag gaagactcta cacaagataa ttaatcaagt tgtttgaaat taattatcaa 420
 caatgtccgt ggatactcog tcacaataac a 451

<210> 31323
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31323

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 ctgcagaaca aacaagcgta tgaagcgcc aacacacggt gattcttctt ctgctaactc 120
 tccttcttcg tccactccta gcgccagttc aaacctcct tcgcaacccc acatcgataa 180
 tattattgtt tctggctccg ccacaaacca tataaataat atcaacctt tgctttatgg 240
 tggcgatgtg atgaataatg ttctttctc aaagttaa atctcttcagt ctcagctgaa 300
 tgctcttggg ttacggtttt catcttgggt tagagagaat gggtagcac tacttcnata 360
 acaacttatt tctgctataa ctctatcttt ggttctcttc tt 402

<210> 31324
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31324

agctttttgt aatctattac acttatttgg taatcgacta gtgtttgttt ctgaaaaatc 60
 taaagatgta actcttcaaa aaggttttga ctttttcaaa taggttttat gtttttctaa 120
 aaagttataa ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag 180
 gctctgtttt gtattcttaa tcaatctttc taacaacaat cttgaatact tttgcttttc 240
 caatcaatcc tttaacaagcc ttgaaatctc tttgaagtcc ttcttcttct tcttttgtac 300
 cacaagcttt ctgaagttnt ctggttctct aaaccttgan aacttgtgct attcatcttn 360
 tcattctct 369

<210> 31325
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31325

gatactgtga natagaaact aacctctaca cttataatat cttctccaaa ttgngcacta 60
 gattntgaaa taatgtgtga tgcaagtgat tatgcagtaa gagcagttct ggggtcaaagg 120
 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaatgaa gctcaaataa 180
 attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaat 240
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300
 tagttaaagc tgattctaaa ccctgactta tccaatggat tctattgttg caagagtttg 360
 acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420
 tgaccattga tgaggtgacc acacaataa 449

<210> 31326
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31326

tctagcttgt atagcaacat tatagttgct aaattatatg gattgttgca cctacaaagt 60
 tatgggggttg aactaatggt tcctataaat ttgacaaca gctgacctca atctcactaa 120
 gcttggtggg tggaaacttt aacttatatg gtggaggcca acagtgcaga atgttaggaa 180
 cataagctgc tattcaaagg ttactactta gtgggttagag gtactcctat ttctaaggag 240
 cataccttgc cgccaaatta agctagatat gaaaggctgg atgttctgcc acttaagact 300
 agtattttgtg actctattat gttctcacta catgactgac ttactataca tttaaacaat 360
 ngaaatntct tctagtatag ctctttaagg tgttctacat a 401

<210> 31327
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 31327

tagacatgat cggtagatga ttcgtgactt gtatgaaaca attcgggaaa cattggatga 60
 tggaaacaga ggttgtcaaa ttgactctct atgcagaact ttgttgatga atatgcgcat 120
 gcagaagatt tgcatagaagg ccagacaaat gctatgtatt ttctgatagt ggaagagtcg 180
 acaaaatgag gtctggatgc tggctcgcca atcccaatgg tgaacatata aacttatgta 240
 cttaaaactt acagtggatg tttcaaggcg atccatcggg tcacgaattg gaacgataga 300
 aatggtactg tgggtctcaa gagagaacaa gctcgactt tggatcgagc tttgggc 357

<210> 31328
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31328

agctttcagt aaataaactt ttatttagta gcttataatg ttttttaaaa aactacttga 60
 actaacgtct tttaaaataa taatttctag ttntatatat ttttttatTT ttatccttaa 120
 tatatttatac aagtttttta cttattcttt taaaataaat cataattttt ttttagttat 180
 tttatatTTT tcacctgata aaaaaaagtc aaaaactaat taaaatatca tgtcaaactt 240

tatcttaata agttaattnt tcagctttca actataatct tcttttaact ttgactaat 300
 tnttcagtta tttttgttaa atataatctt gctccattga tcctataaat ataccgtatc 360
 attaatcagt aattaatatg tcacgtctt gcacatggac tac 403

<210> 31329
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31329

taaaaagaat catgtaatag tagntntgtg atctctgatt taactaataa cttgtgaata 60
 gcatattcac tcttatctga ttttttgnta ttatctatct taccctatct ttcaagggtt 120
 ttggcactaa gaaggcccta tgggtgttct cattgttttc aaaagaggat ttaaacaaca 180
 tacctgcact aaggggcatt gagttcccta cacgttcgga tgttgatgta tgaaagctgg 240
 gtagcttata gggttgaaca ttnttttcat taaatgatgt catttatgct tacttcatga 300
 cagtgcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360
 aatngtccag tagatgtata tatgtaatgt tcgattcaga atgtttgatt attcttataa 420
 tctaagaacc tgtgatct 438

<210> 31330
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 31330

agcttctgtt gttcaatttc gagcgtctcg atatattata tccccgaatc ggtcttctgt 60
 gtgaaaagtt tgaaccattc gaatttctgg acagcttccg ttgttcaatt tcgagcgtct 120
 cgatatatta tgtcccaaaa tcggacattt gtgtgaaaag gtatgaccat tcaaatttct 180
 tgagagcttc cattgttcaa ttctgagcgt ctatgatgag tatgtccgcg aatcggacat 240
 cctatgaaaa ggtatgacca ttccaatttc tccagagctt tcttttgtca atttccagcg 300
 tctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc acttgaatat 360
 ctogaatgct ttccgctgtc aatttcgagc gcctctatat tttatg 406

<210> 31331
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31331

ntggagtttc caagtgccaa ttcgtcttct tctttagtcc agtcttcttc tggcttcaat 60
 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
 tcatagtgtc ttccatcgag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240
 ttcacagaaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300
 aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtcacgaca tcacgcttca 360
 gaacatgcag attatatgtg tccgtatgaa cagattatac aagtaaataa cacaagagaa 420
 ttgtgtaccc aggtcgggtg tacctcacct acatc 455

<210> 31332
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31332

accttgaatt aattcctttg atagcccctt tgagcctatt ttccccttcc tttggtttga 60
 agctcattac aagccttaag tgaaaaacca tgatatcacc ttacccttaa agaattttgg 120
 agctttggaa ttggtttggg aataagctgg gaataagtgt ggggggggtat gtttcattgg 180
 aagatatgat ttttggccat gcttaatggt ttattttggc cttgcttgat gtacatatat 240
 tgcttagttc tttctttaat cttcaattnt gtactgggtc aataaaaaaa taaanataat 300
 aaaaaaaatt aaaaaaaaag gtaaaaaataa ttcagttgct ggcaaattct gcatttcgta 360
 ctattaaaaa aaaagaagta gaagaaaaga agtgaagttg aat 403

<210> 31333
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31333

tataatgaaa tgataaactt caactttatn tctgtagaat atctttacaa caaaatgttt 60
gtaaaccata agatatagaa cataagtaag actcccacta aactaaggta ccatcaagaa 120
ttacatccat atgagtagtg tgctcatgaa aaaaacttta agtgtcagac ctttagtaag 180
tgcatcagct agcatggaat gagtccctat atgttctata gaaatctgta ttttttgagt 240
tctttattta acaaccaa atctttatgac aacaaat tttt tacttggttg aatcctaaat 300
aagatcgcta agatgttggtc ccaataaaca ctgatgact tcttaatgtt ggcaacaaca 360
actaagctag ttacaataat ntaaaagtca taaattctag tatgatgtct catagcanaa 420
atattaac 428

<210> 31334
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31334

acgcttaact taaacaacat tataatcaca acatattcaa aaaacaaaaa cccacaata 60
aaactctggg aatgtaagta tttagtcttg cttttatcaa gttctaaggc aacagtatat 120
ttcccaatgc ttaagtcacc taacagtaca cacaaatggg ggatcaaacc aagagcattc 180
cataattaag cattgaaaga agcattgaac acacaatata caattaatta gatattaaag 240
ataattacat caacttttcc ttagaaatct ccaactanga tgnntagcca gccatacaca 300
gaaacncgaa cacaaatgag atagagagta tagaataatt gctgcttaca caagaaaggg 360
gatecnnntc tctcttcttg cacctcacia tcac 394

<210> 31335
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31335

tactaagctt ggacatcaac taacttcatt ccctatgcat attactatct ctttatatct 60
ttgacccgaa atagnngggaa tggtagagatt atgataagat aatattgaac atatcatgtt 120

ttttaagagtg gctgatgtaa tatcttgcac gttggagtat aagtataagg tgaagtccca 180
 catcgggtta aaatggacaa gttgagcacc atataagtga ggagaagacc cataaaccag 240
 agccttaagg ttttgggtta aagtgtggtg tcaagttcac ttatgtgggt gtcattgatt 300
 cattgatgta aatctctcca atttttaccc ccgctcagtt gcacaacaat tggattataa 360
 g 361

<210> 31336
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31336

agctttgttc tcagatctct ctgntggac tagacttaga ctaaacaaca ttattgtaac 60
 aacatattta aaaccaaacc ttaatccgca gatccctctt gtaaaactaa gtttcaattt 120
 tgcttcattc aagttctaag gcaacaatac atttcccaat gctaaaatca cctaaccaag 180
 cacaaaaatt ggtgatcaga ccaagagcat acagaattta agcattgaaa gaagcattga 240
 acacaagaaa cacaaatcaat tagatattaa aataattaca tcattingttc tttagaaatc 300
 cccaactagg ttgtttaaca agccattaca gaanaacccc taataataat gagattacaa 360
 aacctangta tctcttgcaa agctgctcct c 391

<210> 31337
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31337

tgtaaaactaa natagatctt agatagaagt gtgatattgt tattttctga atggaaaccc 60
 tcttaagagg agaaatctat ctttatgcaa tccaaacaca gaaacccttt gttggtgaaa 120
 gtccagcaag tggctagcaa aggttgtaac tagtggtggt ggtggtctaa caatggcaag 180
 gtgtgaagtc tagtgggttt gttggtaggt tgttgaaatc cagtgggttg ctagtccatc 240
 aatgaaatct catcttgaag ggtgtgagga ctggacttag cccaagtttg gggtaaccc 300
 gtataaaaat cattgtgtat catcttcctt ttctatccct ttgcattggt tttatactgg 360

aaaatgttta ctatcttcta ctctcactaa ggatggtaac tccctttgaa aaacacattt 420
 aaaactgana ccatgtgtca aagtcttttc aacta 455

<210> 31338
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31338

agcttatctc tagacactat ataccagatg ctgtaaataa tgacaggaga ttccatgcaa 60
 cctcctttgc aggagagcac tgccatggct gcttaagcaa aaaaaagaaa aagaaaaaag 120
 ataacacaat tgaaagggtta agaagttaa agaaacaaat gtacaaatcc tactgccaat 180
 taaatggaaa taaactaaag tgattatacc caatgggtgt aggcgtgtag ctcagctgct 240
 aacacagacg ctgagtttgt aggggaggac ctangtttgg tccccgcaa atacacttct 300
 tgagagggcg ataaccttaa gtgtgactaa gtcctagacc anaaattaat ctcatagtcg 360
 actc 364

<210> 31339
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31339

tactaagctt aggttttgat gtgtgagatg cangcaacgc ggaagcaata natttttagta 60
 gtccagcttg acgagatgct tgtaactcaa gatcctttcc ctccaaatac tagaaaacaa 120
 aagttaataa ataaaggaaa acaggcactt taaaaaatta actaaagcaa tttaaaaatc 180
 aaaagactac tatccataaa ttatgaaagg gaaatgcata catttacact tgtaataatt 240
 cttaaaaaaa ggaacttttg gttaaacaac tagttaagaa aaaggattgg ttggacgatt 300
 gtccataaaa gttagtatt tatatntctg ataaaacaaa aacgaagacc atatgcaagc 360
 atcaaccaga aaaggacaaa gaanagctca gcaataactt cgagtctcat acgaatacaa 420
 cagcaggaat cactagttct tccagataaa atattattca caaat 465

<210> 31340
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 31340

tggttgcaagc ttatttcgac aatggtggcc tcttggaat gaagcggcta ttctccttc 60
 tgatgacgca tggacactta tctctgacct aactacaatt cgttcgaaag gtcgaccaa 120
 atcaacaagg ataagaaatg agatggattg ggtcaaacca tctgagcacc gacaaaaatg 180
 tagtagatgt ggagccgaag ggcataacag gcgtcgctgt ccaatgcaat ctgagtgtgg 240
 gagttgttca actcgctgat ttatgtatgt tagtcgagtg acttgtattt gcttacgttc 300
 tgtttaatgt atcgaatctc ttgggttcaa tgaattcggg agctaaaacc attctggctt 360
 ctgtacatta cttatttctg gggttcaatg acatcggttag ttaacaacat aaaca 415

<210> 31341
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 31341

cggccggtgt gctcctgaat acgcaacata atactagcat tgcaagacat tgctttgtaa 60
 cgccattatt tcttacctg catatttgaa tggggtgacc ttggcaggac cgatcatgcg 120
 atagtcccat accttgccga ctgcttatac agatacgatt tccagtgatc tgaagaacgg 180
 ccacaatctg gtgctccaag ttatttacta ctttacagta cttaatggat ggcacgattg 240
 taggctaggc ctcatgatcc atggatcatt cgaaccacat ctacctatca tacactcgag 300
 agacgctact gtgaggcact gctaccatac ttaatatgtc tactcattag acagatggct 360
 gacacgatat cgcgacgtct cgctgcctaa tataccctat atgcttggac tgatcaaacg 420
 accaaccaat tagagcgagc acatatgtgt tatctaataa agtgtacgta cctacactgg 480

<210> 31342
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 31342

agctttttca gagaaggaat ctacggagga aatgcttacc acctcgaaag actggaaagc 60

ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agctcaccaa 120
 gttgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggggaacaa ctcccactga gtggatccac ggacgcccc aacagacagct 240
 gtagggggggg ttaatgtcca ttatttggaa ggtaacttgg catgtgtgag ggcctatcta 300
 tactgggagg tcgatctctc ccctaacctc tc 332

<210> 31343
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31343

tgaaccttga atcttaattc ttgattcttg aaatcatatt tcctcttgaa ccttgaagtg 60
 ttcttgattc aatcttgaac atcttgaact cattctttga ttctttgaga tcatcatctt 120
 tgttatcatg aagtgttctt gacctttgag ctttttgcca tcatgtttgt tatcatcaaa 180
 acttttttga atcaatcttg attcatcatg aagcttgctt ttacaatctt cagctgctgg 240
 taatcgatta caatcctcat gtaattgatt acatgccttc aaaaatattc aaaattattt 300
 taaaaatgtt tcaggaagtg ttttggccac tggtaatcga ttaccagaga gtaaacctct 360
 tgtaaaaaca tttttgctta aattcatcgg ccanacttct tgggtgtttca acttgggaata 420
 tccttttctaa atcactagag atcttcttga 450

<210> 31344
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31344

tttgcaagct tgtaaaaaag ctagaaggag ntatgtcttt tacatgccta actcccttga 60
 gtgacatttg tattgggttg tatcttgtgt gttgcatctt agtacatatc aaatttttat 120
 gcaccttca tcatcatagt aagtatgaag aanagtttct aagttagaaa ggtttcttca 180
 agaggcaaaa ctctctattt taatcgatta caagggtgtc ataatcgatt acaacaagtt 240
 gtttgaagct gggagagttg agtctcgtat cggcttaatc gattacagta gactcataat 300

cgagtacagc tgtcgttgag ataatgaatg atatattcaa gagtatttga tttaatccga 360
 taccaagt 368

<210> 31345
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 31345

ctacggtgaa caagagacat atataaatga atgaccaatg tatttaatga aagttgaata 60
 gtaaggccat gattggataa acttctctcc atgcgtacat atgggagaag aaattatgaa 120
 gataaaatga attgagtttc tcttgtaagc ctaagttaat ttacatactt tgacttttag 180
 agaatttaaa tgagattgct tttatagaag tacagtgcac gagttgattc taactcatag 240
 gagatgctca atttaattta tcttcttatt ttcttcttct ataagcgctt atgaagaaat 300
 ttatccaaac aagaaacctt ggcggtcaa aaaacatatt tgatatgatt gctgcaagat 360
 accttgaatc aaaatgcatt ggtaaatt 387

<210> 31346
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31346

agcttgctgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60
 tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120
 tttgcacccc catttttact aagtacaccc cctctgctg ttttttggtg attctttttt 180
 cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240
 cggaaccttg cggattacat aatcatcccc tttttgactt acggaatgtt acggaacctc 300
 acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacggatt 360
 gtgcatcaat attttttttg gttnttcggc atgtcctgga atttcac 407

<210> 31347
 <211> 445
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31347

cttcttttggga ccttgaacag gcaactaact cctcttttcag atccatgcta tgtgcccgcg 60
actggtctctt ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc 120
gaaatttggtt cgggccatac tcttccttgc gagccctctt ggtttcttgt tcaagggctc 180
ttgcggtaaat tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg 240
ccaacttgaa cttctccttg gcaagttttg cctttcctaa ctcgcttttg agagtttgga 300
cttcttcgtc ctcttcgggt gttcaaaac tctcttcgtc gacgactntt aacttggcga 360
gccaatctaa acctcgata tgaaccttca gccattcgtg gtaccacca atgaggccat 420
tacgaatgcc tctaagctct tgatc 445

<210> 31348

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31348

tttctgcggc atgcagcttt taaagcttgc gttgtatttt tatgttgtca aagcttaatt 60
atcccataag ctccagctat tagtgtacgc taatgaatgg tttaatatct tttagaattc 120
atntagatc ctattttagt gggtccttat acagtttagca atagtacttg acttaattgc 180
caatataaat tggagtatta ggtaggttag ggacttaagt cattgtgtta taccacatct 240
tattaatcat atattattgg ttaccatctg tttttcacat cttctaccta atccctataa 300
cttcacatc atattnagta taattttcct cattcgttct tccccctttt aaagtcaa 360
tcacatgtag tgacctaa tcatgtcaaa atctc 395

<210> 31349

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31349

tttttttaaa aaaaataatg gtaaggaata cataagttga ttggttttta aaatagtata 60

ttggggggaa gttacatata taaaaaatgg atattgcatg aaagaaactg aacatttgaa 120
 aaaaaaaaaa gatgccccgg ggcatgggtc tgcattatac ttagagctat ctactttaac 180
 aagagaattt attcaggaaa actgggggtga tgggtgtgca ttaagagaag gttcacaact 240
 ttgtcattaa ttcaatcaca caggaacccc taactcgttg atcttcatta tcnncgttgt 300
 c 301

<210> 31350
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31350

tctagcttgt tagacttgca attctcacac ctgtcaaggt tatctctcga cactggacaa 60
 tacttgtcca tgcttaaggg cttgactgac tcgtcatcct cctacttgtc aaagttacta 120
 cccccgacac gggacaatct cctttgacac tagacaacct ctttcgcttg ccagccggct 180
 cagagctttg gatgcttatg tattgtccaa ggtccacaaa atacacatgt catgctacgt 240
 gacactccaa gacacacgtc aaccctctat gtcagtcttg gcataagagc acagacgtct 300
 aacccgtagt agctggctcc ccaacagaca ggttatctct aacctcttaa ttatttgaat 360
 atattgncat ctccatatct cttggcacgt atacaaagct acacattatc 410

<210> 31351
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31351

ttgacttgag tcatcaagag attataaata cgtgaccatg tcatgaatnt caacaattat 60
 caatcatctt tgaatcatct atctttcaat ctttttcaac atcatctctc atgcatcttt 120
 caatatcttt caattcattt ctctttatct ttcaaaaaga ttttgttcaa aactgtctt 180
 ttccaagaaa agttctttgt tcaaaaactt gtgctattca tctttttcat tctcttctcc 240
 ctttgccaaa agaacgaagg acaaaccgct tggattcttt tgtgtctccc ttcttccttt 300
 ccaagagaat tcaaaggacc ctgcctgaga attcttttga ttcttccctt acccttaage 360

aaaagattta gaaggactag ccgcctaaga tatctt

396

<210> 31352
<211> 335
<212> DNA
<213> Glycine max

<400> 31352

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaaggaaaa gaaggaaaat tccccaatca aagagtggga 180
gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240
aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaggaag aagaagaagg 300
aaagaaagct cctgatcaag gatcgaaaga aaaca 335

<210> 31353
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31353

tgtagagggt aggattaagt gcaaaaataa tgacttatac ttangaatcc aagcctttgg 60
ttttgagtgc cagaaagcat gaaaatgaga gcatgttggc taagattccc tttttaggcc 120
aacacttggg ttgggctata ctgtgacatc ctggaaattt ctaccggaa ttttgtaagt 180
gttacattta aataattata tgtattattc agggatatata tatattcttg gtagaagtat 240
gtacattggg ggaaaaatac gcggggttaga ctaattaaca aagagtaatc cataactgga 300
cagttataga ttaattcgca attaattagt ctaaaaatta tcattttgcg tgcgacttaa 360
aatttaacaa aaccaacctc tggaccacgc tcanggtttc attctgagcc gtttgatata 420
tatacata 428

<210> 31354
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 31354

agcttgatg tttgtacatg accaaatctt tagttaatcg tctttaccta aagcagtctt 60
 tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
 tattgctatg ctttttgcct aagagtact ctcatttcaa agagacttta ctatttggaa 240
 gagactctgt ttctcttgat gaagtgcag ctgctctgaa tttaaaggaa ttgaatgaaa 300
 gaaaggaaaa gaagtctctt ataagtgggt aagggctgac aacaagaggc angaccttca 360
 agaaagatag taaatctgat aagaaga 387

<210> 31355
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31355

tccacaacat ccaagcaaaa caacattcaa acagcacaag ctatcacagt ctagcaaaac 60
 agagcaaagg cagaaaactc tgctcaacac atcaacaaaa atcacagctt ttctactta 120
 aagaccacag taacaattcc tttgatccaa ttcgttaacc gttggatcga ctccaaaatt 180
 gtactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240
 tccagaactc attctgtact actctttcca cagccaacca cacacaagca ttntctgcac 300
 caagctaaaa tcctgtgca cctattgtga cagcaaaatt ctgcataagt gcagatttcg 360
 aacatcacac ttccnctcat ccaatcttgc tcanatcaca tcctacaagt cccaaatcat 420
 gtatcanaca tgtctaaacc aaagccaagc 450

<210> 31356
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31356

agctttatga gttgaggtgt agagctttgg ttcccttaat ttgatgactt cagcatttgt 60
 agtctccata gcatggtaaa cacatgaagc acactatgct gagacaaatt caataatcct 120

aagtacttta ttaaacadat gtattttgtt tttttgatgg tgaacttgat atttaacata 180
 gggtaagggg acctgtcccc ttgtgcttta agtaaaggaa aatgaccctt taagaaaaga 240
 tggagttgaa ttaaaaccgt ttgacaatca tccaaactgt ccaaattcat agaactggca 300
 gaaattgggt gtggatgtgc acatgttngt gtaggtgtgt ttgtgggtgat aatatataac 360
 tctaggcatg tgagcttcga gaattatcca aacatagaaa acatagtcac tatgtcctta 420
 tcatca 426

<210> 31357
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31357

gaagctntag tgcaatgtag agggatcaag agcagcggtta gatggaaaga gcttgattat 60
 aacttatgag gaagatagga agcttaatta aaaactatgt ccttggcaag taaggcttgt 120
 cttcttccaa gctcatacat atattatttg gttaaagtc acttttgtct ctaaagtgt 180
 aattcgctga caaatgcgtt ttttaaagat aaaaatacaa aatttagttc tcgaaagtga 240
 aaaaagtgca ataaatatat tcgactgtta acttgtctgt taccattaaa aaaataacct 300
 acgtgacata taggaacgaa tntatcactg aaatggttgt caacatgggc atctctaatt 360
 accaacataa ggatatattn gtcataat attttcttga cttttcgtct tttcactctc 420
 tangaatang aatacgataa atagtcactt ttatt 455

<210> 31358
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31358

agctttttca atgtatgtta tgcaaacttc cctgtttccc aagtctcttt aaaaagaggt 60
 tgatagggct tgctgtcatt ttatttgggg tcatgataat tgttgatcct ccatctccca 120
 ttagacgaca tgtgaagtgg aaaatgatcc gcacganaaa atctagtcaa atgacgtcta 180
 acgcaataaa ggaaattgca tataggattg taagtaactt tcattcgtca gtgggtcattn 240

tttataataa ttcttggatc agtaaaccac atntgtttca tctattgact acagaattcc 300
 ctggaaaagc aacctcata gggaatcttt attgcccacg ggcacaaaga tgtattgctt 360
 gtttccattg ggcaaccacaa gcacctagc catgttcgtg attctagagc acggtgtacg 420
 atcaaac 427

<210> 31359
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31359

tnccatagtt ctgaataaat cttctatagt agcttgaaat ttctatatat tctcttaatt 60
 ctttgactgt ctcaggctct ggccactgtt ggattgcctt aattttatca agatctggat 120
 gcaccccttt gacagaaatc aaatgtccca agtaattgat ttgggttggt ccaaagctgc 180
 attttttgta gttgaatgcc aagttgcgtt cttgtagtat ttgtagtgta gtgtgcatgc 240
 attgaatgtg ttctgacct gtcttggtat agactaagat gtcacaaag aaaacacaaa 300
 tgaacttcct aagggtgctc ctgaaaatat cattcatcag attttgaaat gtggctggtg 360
 cattgctaag tctaaaaggt aacacaaccc attcatagtg cccactatgg gttctaaagg 420
 cacgtttatg aatgtcttcc tctaccattc tg 452

<210> 31360
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31360

agcttggttg agataattta aaatttaagg aganaaatag gaaactaaga ttctaattag 60
 tgtggtacaa aataaaaaaa gtgaaattat ttgaaagatt acaagtataa gaaaatttgt 120
 ggccaatgat caaaggaggg tgaaggcggg cgagtggcga gtgaactcag tgggttagaa 180
 aatagaattg ggttttggtt tgggttgctg ntctgtttat ctactctcct cttgttcatt 240
 tcatgcctc tcagccacct ccccttcgct cctctctctc tctctctctc gcgcgcaacta 300
 caatcaaagt catgaaagca ttntgttcat agaagaanga aattcctctt cctattagaa 360

tacnggtntt ttccattca attcaatcat gcttccggca ctgtctcaat tc 412

<210> 31361
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31361

tatgaaaatt tctttataag gatgaagctg gctgctgttg ttttctacat agtacatagt 60
 taagtcatga cacaaagaag tagtttggtc ttgtttaatc tccctttatt tcatcaccaa 120
 gagaataatg tcaactccctt taccgttgaa cagaagttgt gattgaataa taggctacca 180
 tggcgctaata tgtgtaaatt ttaaaatctt cttcttaata caaagtcacg tgattggtca 240
 gaattatcaa tatatctttt tccctcaagt ttaagagtta ctaattctaga tcaaccttac 300
 aattagatgc ccttctttat ctttgtaagt atccacaaat tctctgatca atattcaant 360
 agttggtagc tggatattaa attctctcga taagtctcat gttctatctt 409

<210> 31362
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31362

agctttttctc tgaanactta ctaaaataag ctacaaaaac agcttttttt tataagtttc 60
 tctgtgaagc gtattgaaat aacttacaaa gagtttatag gaaggtcata agactaaata 120
 agctcttcca aacaaccctt aagtctcca aagcttaagc tgctagatga cagctcatga 180
 atgattttat atctagcaga cctaattaga aatttcttag actttgaaca caactacaaa 240
 cttcaatata tagagactga atagaaaatt tcaagacagt caagggacct gtagataaat 300
 taaatcaaaa tataaagaca aggttataaa attaaccaat tgggctagaa tcatctt 357

<210> 31363
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 31363

ctaagctttg ctaagaatat tgcatttgaa aacgctcatg cattctgcat gtacatgcat 60
atttgtcatc ttgtgacagg gacaagattg ttttaagcaa tgggtcaaata ccgcgccaaa 120
tccaagacag agatgggtcg aggttaagtgg taacgtgacc aagatttgct gcgcaatgct 180
atcttctgct ttcaagtact tgnngacggn gacgaatgga tgctaggccc atgatcaaca 240
gatcgctatc ctacgtccaa ctccggacaa tcgagaagcg ctacagggag gcagcctagt 300
atcctttaaa ttcctacata ttattattgt tgtttcttta agatgataat cggatgccta 360
acttaccag ggggtttgag taagcgaaca ccaacctata gaaagcgcgt actttctttt 420
gcaaaaaaaaa cgagggga 438

<210> 31364

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31364

agcttatata ataatttttt aacttgaaat aaccctaagc cataaaagcg ctagagcctt 60
tatttttaat ttttattata tcttatcata gtttatataa aattttgatt aatcgattaa 120
atttaaaggc taagaaaaga ggtaagatta attttttaag aaaaaaatg gattttgggt 180
acattntact attttaatta gtatatttta aataaaagag gctttaaaat gatttaataca 240
ttatgatata aaaatgaaga catagactat gtttggttta gttagtctt aacttttttt 300
actagctgan aaaatttagt tgattatttg ataaatgaag tctcaatggt atactcaaat 360
tagttagaat gggatgatga gggttagaat tttcaattcg taagaaattg taac 414

<210> 31365

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31365

gccctctctt cccttcgcag cttgagttca ctattgctac cccatagaag ctgcgaaat 60
ttattccggc cctactcttc cttgcgaacc ctcttggctt cttgttcaag ggctctcgcg 120

gtaattgcat ttctctcccc gaaccgggca cactccttnc gaatgtgtgt agcggccaac 180
 ttgaacttct ccttggcaag tttcgctttt cctaactcgc ttttgagagc ttggacttct 240
 tcgtgctctt cgggtgcttc aaaactctct tcgctgacga cttttaactt ggcgagccaa 300
 tctaaaccct cgatatgaac tttcagccat tcgtggtacc caccaatgat g 351

<210> 31366
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31366

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 tttaatagta agaatatntg cttattagtc tggagatgga tcatggtaca ctaacatgct 120
 tttatttagt acctttctgc acataaaaag tgcccaattt tgtatgcttt gtcctggagt 180
 gacgaacaag attgtgcgag agactgtact aaggttgtca cagtagatct ttggagtctg 240
 aaaaaactca gaagagattg aatccatagg atttcagctt cagtactcag cctcagtgct 300
 ggactggggc actaaattct gtttctgagg ccaccacaaa attaaattgg ngtcaagata 360
 tatacaagca cctaaagtgg acatcttctc attcatctat atat 404

<210> 31367
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31367

tgtctcctat gcagtgcac tatcctcaga atataaaatt tgttgtgaca gatccaaatg 60
 caaaggaact tgcgaacccc accactccaa acacaatctc cacaccattg ctgaaaactc 120
 atactacaag aaaatatgat ttgtagattc tccacaccat tgctgaaaac tcacactaca 180
 tagagtttcc gaggtcggaa taacattcct acgagccaaa ttctatttag agggaatgtg 240
 atcctaaagc gctttccatg caaagccttg aatctttaaa gcattctctc cacctccaat 300
 ccctccccac accacccttc ctccaaagac acatctnctt caccgaaact tgcttatcta 360
 tagccacatc aaataatcga ggataactca ataccaatgt cgcctcacc acccaatgat 420

ccctncagaa taatactact ttacctaatt cat

453

<210> 31368

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31368

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aacaaacgtg aagaatgtca acattacatt caaacatggg tcacagaatc acaacgagaa 120

gtgtacttgg gagcttacct gaatcaataa gttgaattga tgttgtacaa tatggatatt 180

atgtgcatta ttgggtgcta actaatgttt ntcgtcttca gggcacattg gcaacttggt 240

gttctgtgtc cacgggacaa tattgttggt tggttttgtt ctttgcataa gaagcttgat 300

gttaacatca agactgcagt gaacaagtta gttttaacat tataaagtca atattgtata 360

gaaatcgtag cgtataaaca caatgattat ttgatatata tg 402

<210> 31369

<211> 368

<212> DNA

<213> Glycine max

<400> 31369

gaaatgggca gcaaagaaca aacacacatc acagaagaat aggccacaac cattaacctg 60

cgctaaaagc cattcaaagc atggcatttt gatattcctt ggtaaaactaa gaacctgaaa 120

aatacaatag aaacatgggc accgagagac atctatcaca atagcatata agtatacctt 180

gaatgattaa caattctctt gactttcact taaataacat actcaatttg catgatccac 240

ttcttcaatc cttttaatta gcattaacaa ctatagcttt agaatcatta acaatcctct 300

tgactcttac ttagatgaca ttattcgaaa ctacatgaca ctccgagcac acatccaagg 360

atattttc 368

<210> 31370

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31370

agctttataa tttgaattaa aacgttcaga aacttctggt aatcgattac acagtgcaaa 60

ttntgaattc aaattttaat agctgttgta aatcagtttt ggccactggt aattgattac 120

atcctctggt aatcgattac cagagagtaa atttggtgaa aaagactttt taacttaaat 180

ttcttggcca aaccttttgc tacttcaatt ggaattccct tcctatataa tatacccttt 240

ctaagactct agagactgtc ttgatcatcc atcttgaata tctctaattt ctttgtcttg 300

aataaagctt tgagacacat gtgaaacttt ggcatcatca aaacattcag ctngatcctt 360

tgtctactat ctcccccttt ntgatgatga caatccctga aatca 405

<210> 31371

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31371

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catgaccaca aaatcagctg gaaagacctt cacttttato aaaacattct caattacccc 120

ggaaggtctt gtgatggatc ggtcaacaag ttgtaaagtc atttctgtgg gcatgatttc 180

caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaata 240

aatgagagtc tttctgatgt gccatcatth tcttctatth cttaaaccct ttntgcacca 300

ttttaattac tgattagtct taattgtcaa attaattaag cagttttatt atttgggcac 360

attgagctaa tttgatgttt ntaatctaath ttcatgaatt aatgaaacat tgggcttaath 420

ctgga 425

<210> 31372

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31372

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actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc ttgagcttag 120

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180
 tacacacccc ctataatagc taagctcacc cccatgacaa anaaacatga aaatacaaaa 240
 aaaaagtcct tactacaaag actactcaaa atgccctgaa atacaaggct aaaaccctat 300
 actactagaa tggccaaaat acaaggcccg gatgaaggaa atacttattc taatatttac 360
 aaagataagc gggctcatac ttagcccatg ggctcgaaat cta 403

<210> 31373
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31373

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 gtatgtatac atgattttga tgatgtcaaa gaagaattta acaaggctgc ttcaaattgat 120
 aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt ggttcaagat 180
 tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctctggg 240
 aatcgattac caggaagtgt aatcgattac cagaagacag ggttgagaaa tagcagttga 300
 aaaagggttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360
 ctagcaacgg aactttggaa attcanattc aaaagtca 398

<210> 31374
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31374

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 cggagcccca tgaattgatt gcctaacgct gttcatgcat ccttcatcat caaatcttat 120
 tcggagcccc atgaattgat tgtcgttcat gcatcctcca ccattcagtc cggagcctta 180
 cgaatagact gccaaagctct gttcatgaat cctctatcat caaatcttat tcgaagcccc 240
 atgaattgat taccattcat gcatcctcca ccattgagtc cggagcccca cgaattgatt 300
 gcctagtgtt gttcgtgcat cctccaccat cttattcaga gccgcatgaa tngattgtcg 360

tccatgca

368

<210> 31375
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31375

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cgatcatcgt ctccctttcc attattgggg gtaccacctg ggccgccaga tccctccacc 120
ttttgggcgt gttctttgaa agatccgtcc ccctttttgc acatgttctg tagttgcac 180
ctattcagaa ccatatcaaa tttgtactga tactgcctaa cacaggcaac cattangtcc 240
ttccaagaat ggactcaaga aggttactaa gttagtatac cangcgacag ttgtcctagt 300
aagaccttct caggaaaaat gtatcagcag tttctcatct tttgtgtatg ccccatctt 360
ccgacagtac atcttttagat ggttcttgga gcgagtaagt cccttatact tgccaaagtc 420
cggcaccttg aacttgggaa tgaccatg 448

<210> 31376
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31376

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ggctcaagga taaaatggat gcccacatt atttccatga cacaaaaatg caaaatgat 120
gatttggaaa ctttatgcaa aactgggtcat gcatgcacct atgcggacac tcgagtgtca 180
aatttttatg gtcatgtgat gctatggctc atgattcatt tcctctatct tattcaaccc 240
aatgctttca aaatatgttc ttttatcaat ttgtgcattc atccgagtcc attttgggcg 300
tctgggacat tcttacagca ttcacccttc aagtgtatac acattttttc taaaact 357

<210> 31377
<211> 323
<212> DNA
<213> Glycine max

<400> 31377

gaagcatgtg taacacttgt tggaactttg atgaatgaga atcttgtgag acacaactcc 60

aagttcaact tctcttcatt tttcttccct caatttcgtg ctccccactc tctctttctc 120

ttactctttc ttttctcca ttgaagcacc ctctccaagc ttcttatcca ggctcatcat 180

ggtggaggag ctcttcttc catggcttat tccctagtgg atggagcctc ctctcaccta 240

ttctactttg tctttcgtg catctccatg gtggaaaac accattgaat gacctcattg 300

aagctcaatg atccagcctc cat 323

<210> 31378

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31378

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caaaagatgt aactcttcaa atagtttttg actttttcaa attggtttta aggttttcta 120

aaagtcataa ctcttctaata ggttctcttg accagacatg aagagtctat aaaagcaagg 180

ttttgctttg catttcaagt atctttccaa ttcatctttt tgacaacaaa cttttgccaa 240

ttgatttatg aatctctttg aacttcttct tcttcttctt tttgccaaaa gctttccaaa 300

gttttctggt ttttccaaac cttgaaaact tgtgatattc atctttttca ttctcttacc 360

cctttgccaa anagaattcg caagggacta accgcctgaa ttctttntgt gtctctcttc 420

tcccttttc 429

<210> 31379

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31379

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gttttctctg tttccttagc agcttttgct ttttatgacg tccttcttca gcatgatcat 120

ttctctctc tttcctgat tccaatctat tcttcttgg ttccaaggcc tattgtagcc 180

ccacattagc tcaatcatat atatgttaga ttcttcgtta cttttaaata attatgtata 240
tcttctactg tatagaaacg tgggcatgca accttattgc taacgtttat ccggatattg 300
aaataaagac gtgcttcttt ttctttcttt tctgcaaaag agaaacaagt cttatagtct 360
gaaactgggt tcgttactag ctatcagatt cactgaaaga aaaccatcta gctgttacct 420
cagagattct ttctattgta agtttattct ct 452

<210> 31380
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31380

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aaatccaaaa tggttacttc tcagcaactg actggagcta tggtaaattt accatagaac 120
gtcgtctacc atagaatgtc accaaccatca gaaccattta tccttggttt tcatcaaaaa 180
agatttataa atatggccat aaacttagat ctattgttga tgtaataact aatgggatga 240
ttgtgaaacc ttttttagcat atgaattatt ttttctttgt ttataataga acaattttta 300
gtcacgggaa aaaaatacaa agagaacgaa ggataagata tcataattag catatgtaaa 360
aagcagaaaa caacaaaaac aaagaggana tcaacaaaaa gatgttcact tcctcgacat 420
atatactagt gaga 434

<210> 31381
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31381

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ccatagccat cattggaaag ctgacattgt ttagtagggg agtcatcata ttaccatggg 120
cctattgagt gtaccacgac catcgttaag tgacaaagtc ttcaaattctt cagaaaaaat 180
gcaaattcca actctttcac tcaattcaac ggctatactt ctataagaca aaactagcat 240
tcaaatagaga gttctgcaa gaaaatacat gaaaatgaca caaaaaatca cataaaatat 300

caactcaaaaa gtggtttatc accttgccca cacttgagcg ttgcttgtcc tgaagcaagt 360
gttctagttc tttaaatcaaa acaattatcc taaatcagaa ctcatgtatc tganatctcc 420
atttattcan atgtanaact cacatta 447

<210> 31382
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31382

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gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
ctggatcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggc catgtgatgc 180
tagggctcag gattcatttc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240
ttatcaattt gtgcattcat ccgagtccat tttgggcgtc cgggaaaatt ttcacagcat 300
tcacccttca ggtgtagaca cttttttcaa aaaccagtta tgatcagtga atntttttca 360
nagaanagct ggaagttatc tcttttcaaa agcatgttgg ttnttcagct agacaactta 420
tttgctnttt tctccttc 438

<210> 31383
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31383

tgagtttact agtatntgt ttatgaaatc agttttcaaa ttctcgaaag tgaatcaaac 60
ctgccctaaa aaatctttgt tttctctctt cttctatatt cttcccatc tactcatttt 120
ttctcttctt tccctatcac ctacacttga catggcagta taacacccca aactttttta 180
cccatgttga tagaatcatc aaatatacat atccaccaa gaagtacaaa catagacatc 240
atactcaagc ttactttctc ttatgtaacc atggatttct ttccctaaat taaagcaacc 300
caatcaaagc actgcttgta gagcactagt tattgaacat gaatccagca ggtggaaatg 360
agatagaagt ggaaaaaggt ggattcaaca gtctttttaa ttaaatagat gacactaaga 420

tggcacatga

430

<210> 31384
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31384

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ttcttgttaa gattatatat atatacacgg acttactcca ctcaatgcc aatgtctatct 120
ttaatgttta aatttagagt tgatctcttt tctcaatttt tcaattaaaa ttacatcaaa 180
gaagtcatat atttagagat aatacattgt ttattcttga taaggatggt caaaactaat 240
tacacaagtg aggactaaaa attgagtcct gatacaaatt tatccttgta cagaagtctt 300
tagtatcatc tctaattgatt ctcaaactat taattatctc atcatttatg tcttgtataa 360
ttcagatata agtcatgtaa atatatttct ttgtcaaagc tttccataat acttatctca 420
acactccatc aaatatt 437

<210> 31385
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31385

tatgaaataa aagtatcgat atatgtgcat gtacacaatg ctgcatcgga aatttttagaa 60
agaaggaaaa aaaatcaaca agattgaaag gccaatatat caagtgcaa agaaagtgtc 120
gccacataat ttttatgcgt tcaactctata aagtgttaga atttgagata tcatgacaaa 180
aaagatatat gtaaatttaa aaattaaaag gattgggaaa gaggaaaaat aaaaattcta 240
ctaagggtta tacaacaag agaaactcta tcaattcatg ctaattagaa gaaaaaaccc 300
aatttttagg gttcacactc aacataggaa cacatcaatt tcacaacaaa ttcgatatga 360
gacaccaatt agtctgtcaa acacagtcaa tccacaatta anaacataag aacataattg 420
aatntcataa aacaacccaa gtg 443

<210> 31386

<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31386

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tgccattcct tggattatag ggttgaaccg agtcatgct tttacaaaaa ggttcatcaa 120
gtcaggttga aatatggaag taaccatcct gcaaacttgg ggcaaaagat gaatcgagtc 180
acatcactgc ttcgtctact gccaaacata tttaggatta ttgatgtcct tgttacttcc 240
agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
tatcctgctg aaaaattcgc aatacttcta catcattcgc atgcatccat gcttttcatt 360
ggttgcatgt ctcattgcat tctcttcttg aaaaataaaa taaaatgaac ttatcaaaaa 420
aaanaaaaaa aacaaaaaaa 440

<210> 31387
<211> 414
<212> DNA
<213> Glycine max
<400> 31387

ctatatggac gaaagtgcaa aactcctatt tgttggtatg atgatggaga agcagtactt 60
cttggaacctg aaatgctaca acagattaac gaacaagtga ggttgattcg agagaagata 120
aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180
catgaaggag aacatgtggt tttgaagggg tctcccgtaa ccggagtcgg aagagctctt 240
aatgctagga agttgacacc caagtatcta ggtccatata aaattttgaa gaagattggg 300
cctgtagctt atcatatcgc cttacctcg agtttatcga atctgcatcc tgtgtttcat 360
gtctctcaac tgagacggta caaccagat ccatcacata tacttgaggt ggac 414

<210> 31388
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31388

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 tttaaagcaa aatcaagcaa aaacagcata caactccttc caacaaaacg caaatatcaa 120
 tgtaaattta gagcaaactc atacaccaat gcacgtgttt ttctgggaca tacatttatg 180
 aacatacatg catgcaagat attttgctac ctatcttcac atatatgtgt ttccaaagca 240
 ttttcgctaa atttacatac atgcatactc aaggatatttt gggctacgaa aaattacata 300
 catgcatatt caaggatatnt ttgctaccaa aaattacata tatgaatatc caaggatatt 360
 ttgctaccan aacattacat tntatgcata ttcanggtat tnttgctacc aaaaattaca 420
 tacatgcata 430

<210> 31389
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31389

tagccctaga gaggatggac cttttcaggt tttggagagg atcaataaca atgcctatag 60
 gttggacttc ccagaaaagt atggagtcag caccactttt aacatttctg atttaattcc 120
 ttttgcaggt ggagctgaga ttgaggagga ggaactaaca gatttgagga caaatcatct 180
 tcaaggggaa ggggatgatg caatcctccc taggaaggga ccagtcacta taaccatgag 240
 caagaggctc caagaagatt gggctagagc tgctgaagaa agccctatgg ttctcatgaa 300
 cctcagggtg gatttctgag cccatgggcc aaggctgagt ccaattatct ttgtacatat 360
 tagactanga tgtcattata tttggtcctt gtatttangg ctccatattc tangtagggg 420
 accctataaa tatac 435

<210> 31390
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31390

tatgtcaaac agaataatcc anaaatgcc aagaattggg tgttgaaaaa gcataacaag 60
 actttctgtg attggtttta agatacaatc tttgcagatg aaaatgcttc agaaacttta 120

caaagatcac ttaccctcat ggtccacctt agacgcagtt tttttttttt ttttttggag 420
tcctcacttt tcatattatg c 441

<210> 31393
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31393

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agaatggaga aggagaaaga tgaatggaga cgccacttca agtagaagat gagtctagaa 120
aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180
gggacaggaa aagaagagca cgaaatttag tgcctctaaa gaagtctgaa ctttgaagtt 240
taatttctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300
aagtgtcaca caaaattaga gggaaatttg aatttctatt caaatttcac ttaaatntgt 360
ggagccaaat tttggagcca aaatttcact aattatgatt agtgaatntt agttatgggt 420
cagcccacta atccaagatc aagtc 445

<210> 31394
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31394

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agaaaacatc atgggttgga tatgatccag tgcatatata attgaggagg atgagaggaa 120
taacaaaaag aaataaaaaa atagaagaat ggtgggggtg ctatggaaga agatcaaggc 180
aaaggtgagg aaggaatagt tatatatggc atgtgtgaaa caaaggtaaa gtgtgagaat 240
gaaggtaaga agtgagagaa gtcacaaact atagaggtn ttttaatttca ctccaaagaa 300
ctatgcatgc ttcattgacac aacctttctt taagtatgag taggggttaga ttgagcccaa 360
gattaaagca ttgtcttann aaatgtattg tttggtttaa tgggaaacta gtctgatgaa 420
taatctanat actct 435

<210> 31395
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31395

cttatagaga aaatgatggg atgattntct acccaatctt attatgttga acagctatat 60
 attaaagaag ttttaattatt ttgatgtgaa acatgtttct actccttata actcatccat 120
 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180
 ttccttattg catttgacaa acttctctag gccagacatt gcataatgcag ttggtagatt 240
 aggaagggtat actaataatc ctgatcattc tcattggatt gcattagaaa gagtttttag 300
 atacttaaaa ggaatcatca attatgacat tcattataca tgttntcctg cagtaattga 360
 ggggtttaat gatgcaaatt ggatttctga ttctgatgaa acanaatcaa caagtgggta 420
 ctgttttact ttagctagt 439

<210> 31396
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 31396

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 agtacttatt acctatattt aacaaaaagt aattacaaca ctacaaaata accataaatg 120
 agaggagtta gatacaattt tcacagattt cttacacaaa agttagtcgt atttatcgac 180
 taacagatat cattccattc atgattatgt gcaaaaatgc atttttgata taaagtcttt 240
 agacacaaat catcaatgga ttgatattct cactaatcct ttgtctaaag aaagcttcat 300
 ctgtataaag gaacatttaa catatgatta gcttatcaga ttaatgaata tttcttggac 360
 gataacatcg tattactttc ttatcattaa tccgctggga ctaatgtttg ttgaagt 417

<210> 31397
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31397

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aatatgatag gttgctgctt gatgtgagct ttaacttttt ctagaagcta ttgactacta 120
ttagttgaat taagtagtgt gttatgttgg ttgaagataa ataaaatgat attgggtttg 180
taatgcagct ggaagatcct agcattgaca ttcacaagga agggaaatac ttgatgcttg 240
ctgttcagga gctgggttca ggggatcaat gtgaacgaag gtttgtattt ggccgcgaaa 300
gccggaagcc taaggcctcc aatgatgaaa acaaatttac gaaagatgga acatatccca 360
agagcttgct gcagacactg ttgatgagag cagggcactc cccaccanaa tacaaaacga 420
aaca 424

<210> 31398
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31398

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acaaacgggt aggattaata cctgtttatt agggatgggt tcgagatgga tatttactga 120
caaaaaatta atggggatgg gttcaggtat ggggtactata gtaccgatcc catctcacct 180
catcatgccc ctatgatata tattagtttg attaaaatat cttttatata ttactaatta 240
ttaatttaat ggcaattggg aggcaaccta acctttgttg atgcacataa atttgtcatg 300
cctttatgtg aattatggat caatacattt ggaacgcac gtagattgaa tgagaactgg 360
ttttgaaact taaggtaatg cacaaaatat catgtaaatt taccctaata acattntttt 420
aatgcttaat aaaatc 436

<210> 31399
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31399

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tgtaactatc aagattgacc aaaagcaagc gcgacagtgc tatgcaaaga tctgaaggt 120
 agcactatat cctcccatcc gagagccgac catgtctcac atcacagtga ctaaagactc 180
 tcaagtcatg acagtggacg aagggtctca naactgagcc ctaaccatct gccaatccac 240
 ccacgacgag tgacatgtgc tcacgagcac cccactaagc ctccaatacg tgccacccat 300
 ggcatatttg cacgagcata ttgctatgtc tccagcatat gtcacccacg gcaagtgaca 360
 tatatgcana agcatactac taagccttca gtacgtgcc cctgcggcat gtgcgcacga 420
 gcactctgct aagtctc 437

<210> 31400
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31400

tcgggctgct caattgctcc aggttgctgc atggaagggc atatgtctgt atgggtggta 60
 atagaggagc ataaaccaca gacccttgca acaggtacaa atttctgggt caaggccagc 120
 tgggttacca agttaaccaa tgcattcagt tttccttcaa gcttcttagt ttcagatgat 180
 gcagctgagt ttgtagctac ctcatgcact cctctaataga ctatagcatc atttctggcg 240
 ctaaacttct gggagttgga agccatcttc tcaattaaat ttctgacttc agcaggagtc 300
 atgtctccaa gggctccacc actggcagca tctatcatat ttctctccat attactgagt 360
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaactggca 420
 catagttntt aaatctctcc cagta 445

<210> 31401
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31401

nttacctgct tatcttgacc canatttgca acttcaagat ctctcactg gtgtaagctt 60
 tgcctcaggc ggtgccggat atgatcctct aacagctgaa ttagtggtac ataaccatat 120
 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180

<210>	31402
<211>	440
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31402
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gcttatattg	gttaaaatgg	accattcaaa	gcataaaatc	aacatataaa	tttatcgctt	120
ttgcaagaac	tacgtaggta	tgattttctc	atcacaattg	aggatacgta	ggagcaaaag	180
ccccactttt	gtcgaccacc	ccaagagatc	gttaattatc	caacgcctta	acgctttctt	240
catttcaaaa	atcaagagat	cattaatggg	ccaacgcctt	aatgtttctc	tcctttcaaa	300
accaagaaat	tgттаатggт	ccaaacgcct	taacgtttct	ctccttttca	aaaatcaaaa	360
gatcgtttaa	aagggtccaat	gccttanacg	acttttgttc	ggttaaaata	tatcttgcca	420
nnaaacataa	aaacaactta					440

<210>	31403
<211>	448
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31403
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tatg'gcgata	tttccctacg	aacgttcact	tgcaacaagac	attctattat	actaagaaaa	60
atgcacccat	atacaatcaa	ggtagcttcc	ttacctagat	tatttacatg	tactttccaaa	120
gtgtatttgt	tatttacatc	atacacgcc a	tcttgtcaaa	atttacacac	atgcatactc	180
aaagcatttc	ggggtaccaa	aaattgcaca	tgcgctcatc	ttgggtatttc	taatatctat	240
acatatataa	acttcatgat	gaatcttgac	tatctacaca	ataaagtgtc	acatttcatg	300

agtttgacgc aacac

435

<210> 31406
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31406

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tagcatcatt ttggcactaa actattggga gttggaagtc atcttctcaa ttaaattcct 120
agcttcaaca ggggtcatgt ctctaggac tccaccacta gcagcatcta tcatacttct 180
ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctgggtg 240
tgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300
ctgagttgcc taatgcctga aatatccttt ttgatggtcg tggctcctgga ggcagagaan 360
atTTTTtcta agaatactct cttgaggtca tcccagctcg cgatggacct tggagcaagg 420
taatatagtc agt 433

<210> 31407
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31407

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tccgtggtaa ggccaccctc atcatcatct acaatcaaca aaaatacttt agaagcgcat 120
ttgtggccac gatgatattt ttcatacaca ttaaagcaaa ggccacgttc ggcacacagg 180
gtatctcctc ggaggataat cttttaacag gcactggggg tgatggtttt aaagggttga 240
gcancgagga cgagggaaag gaaagggtgg acgaagaagg agctgaggca tgtggaaaaa 300
aattgtgagc aggaatggcg ttgggacgac cacggaaggg ccgacgagtg tcaagaaact 360
tctcttcta gagccaagct aaccccgccg cttgaccaat gtcaac 406

<210> 31408
<211> 229

<212> DNA
<213> Glycine max

<400> 31408

aatcagggga attccgactt cagaagaaag cctagaatca agaatccaga ctgcgatct 60
ccagaatcaa gatcaagatt cccgaatgaa gaaaagactc cttcagatca gtttagaagt 120
ttttcaaact ttgaatagca catgagtttt gacaaacctt taccaagagg tttactcttg 180
gtatcgatac atcttgtgta tcgatatcag tagcaaatga gttgaaaag 229

<210> 31409
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31409

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acctggagat atgtcgcggg ggtcaggaga ccttggggac atcaggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca ccccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aaacaggcga gtccttgga gtcaacagat aaaaggaaca aagaccacaa 240
agcaaagagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttgtggc 300
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaat tgaagacaga 360
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac cangcttgaa 420
aac 423

<210> 31410
<211> 425
<212> DNA
<213> Glycine max

<400> 31410

cttttgagaa ccattgctct tactggtaat cgattacttt aatctggtaa tcgattacca 60
gagagtaaaa actcttttggg aaaaggattt gagaaaaatt catgtgctac tcagcttttg 120
aaaaaacatt ttcatactta tcttgattaa gccttctctt gattcttgaa tcttgagtct 180
tgaatcttga tctcgattct tggaagcttg aaccttgaat cttgattctt gattcttgaa 240

cttgagtttt atgccaatgc ttggccaaca gagggggggg tgcgtgacat g 411

<210> 31413
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31413

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 tctcctccag cctctaaacc ctaactctct cagtttttct gaactaagct ctctttgttg 120
 ctcaaaaactc atctttctcc ttgaaactcc gccaacctca gtgtttttaa ggctcttgga 180
 ctcttcagct tccgaaagct cgctgagcga gcatggctcg ctaagcgaga gttagtgaat 240
 tttcgcttaa cgagagtggg cgcgctgagc gcgagaagag acaacatgct cgttgggcag 300
 gctggcttca cgctggacaa gcacatctct gacttatcat cttctanggt ttcccaatca 360
 actaagcgag ttggatgect tgcaaagcgg atgcatctcg ctgagtggat ntacctctct 420
 aagcgagtca tcagct 436

<210> 31414
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31414

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 caaagtcaga tgtttccact ttcaagtaag aaccagatga acccatttgt gaagtctgga 120
 agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccagc 180
 taagcatatt ttgcaatggg ctaaggccta aaactaagat gattctggat gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgataca gaaaagagga gtgttggaatc 360
 tcattctcaa gggtttttca aaggaagtgt aaaaacattn tgttgtggta cctataacac 420
 aagagacgct gagagaagct c 441

<210> 31415

<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31415

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ttggacctcc tagaagagta tagagtcaac accactttta acatttctga tttaatcct 120
tttgcaggtg gagttgatat tgaggaggag gaactaacag atttgaggtc aaatcctctt 180
caaggggaag gggatgatgc aatcctccct atgaagggac cagtcactag agccatgagc 240
aagagactcc aagaggattg ggctagagct gctgaagaag gccctagggt tctcatgaac 300
ctcacggtag atttctgagc ccatagacca aggttggtgc caattgtctt tgtacatatt 360
agactangat gtcattatat ttgatccttg tatttanggc tccataatgt angtagggta 420
ccctagaaat at 432

<210> 31416
<211> 439
<212> DNA
<213> Glycine max
<400> 31416

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tactttcaca agaattggac gatgggttctt ctcaaagggt agatcaagaa cgtgctttgt 120
caagtgcggt tgatggtata gcaattgaca tgcagagaaa atccgagtct tctgagtgt 180
aaagagagaa gtttcgtgaa tatgagcatc aatgtcgtga gaagatttca attgatgatg 240
ttcagcctca ttgtgaaaag gtggatgcac atttggaagt tcagaaggag acggatgctg 300
ctcctttact tgactgtaaa gagacgcagc agggatctgt tgattggaaa attgatgaga 360
gaccgattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420
ttctgtctgg ttgtctatc 439

<210> 31417
<211> 318
<212> DNA
<213> Glycine max
<400> 31417

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 actttgagag aaaataacaa ggcctttcat ttatgcattt gataacaaat aaaatagagt 120
 ttgtatttat aaataataaa aataaatcaa ataacacgtt gtgagtactc taggtataaa 180
 tagcgatatg ctaggctaga cggtagctct tacgattgtt catcctttct attgtgtcct 240
 tcctctcctc ctgctcagga tcccttctct atcctgcaac ccaccatacc tatcttagac 300
 aatctacgat ctgggact 318

<210> 31418
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31418

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 tactgaggca tcatcgcagg tataccttgt ggaccgaacc cagtcacttg gaacggaagg 120
 taccttggaattgtgtg actacagctg ctactactat cataaggaag cattcgcaag 180
 cttggtgatg aacatgattg aaattgtgcc ataacatcat catcatagac atttattgga 240
 agagagtagc tggggggagg atcatgtatc tcatccggtt ttgtctgtgg aataagctgg 300
 gataggggat ttttagactg ctaaacacaa aagttatgta ataaataaat aaacaatgag 360
 cccaaaatag atggaccaga anatgctcta agagaattnt aactccttga aggagaaaga 420
 tgaataagaa tatc 434

<210> 31419
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 31419

tgatgctggg ggtgtggcaa agaatactaa tgattagtga atttgtagtg aaagagatga 60
 ggctctaaac atatattata aaaagccata gagttcacgt ctaaagtaca gaactttctg 120
 gtacgcatat gtaattagga gcacaatcga ttctaactca caaaaaaaaa actagcgggt 180
 gtgttaccba aaatcccata ttcttcccat ccaaacagca ataattattct ccaaagcaaa 240

ataacattag tcgtccttaa attatattct attaatcaaa gattaaaatt gagtatgcgg 300
 atatatatct atgaactgca aggatcaaga attcaaggta aaaagctact tggttagata 360
 tgtacca 367

<210> 31420
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31420

ttcttgcttc ttaaatttca ttctgctct tggttacagt tatcgttcat gcctaaaact 60
 gtcacatcac aacttagatc ttaattgaat tttctagctt actaaccatc attaaataat 120
 ttcaaattag ggactatact aattatttca actgttggtt tcatatgggtg ttgattttgt 180
 gcatgttaat ctgcctcatg aaattttgtt attcatcggt gtatcagcat gacaatgaaa 240
 acactattat tgtgttgctg accaatgcc acaataaaga gggccaccct gtactatgat 300
 atatagttac ttatgttggc tttctttcac acaaatatg ttgttttatt gttttattnt 360
 ctatgtagct ggttggttat tcatgttttt tcttggtatg gattttttca actggagagg 420
 agttttttctt acataca 437

<210> 31421
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31421

tataagaaac aaaatgcatc aatcatttcc aaatatgcat gtgaattang acgcatcaac 60
 aagaatcaag ccaagggtat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag atgagaatca aggattttcaa gtcacaacat gccaaaaact 240
 tttattttca aaacaattac ccattttctg aacatattcct ataattcaaa gaaaaacatg 300
 caaagtcgta catgcacaca aaattgacct aaaatattaa actaacaatc cgacgaaact 360
 aacaacatta acaaatattc aaaaccaaca aaactagcaa aaccaagaa cccccccnc 420

cccccccat acttaa

436

<210> 31422
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31422

ntattcaaga caaagaaatt taagatattc aagatggatg atcaagacag tctctagagt 60
cttaggaagg gtatattaaa taggaagggg attcctaact gaagtagcaa aaggtttggc 120
caagtaattt aagttaaaaa gtgtttttca agagatttac tctctggtaa tcgattacca 180
taggatgtaa tcgattacca gtggccaaaa atgatttaca acagctatta aaatttgaat 240
tcaaaatttg caccatgtaa tcgattacac atatatggta atcgattacc agcagttatt 300
gaacgtttta attcaaattt taaagcttgt aatcgattac acacatactg taatcaatta 360
ccagagaaga ttttcaaaaa atattctcaa cagtcacatc ttttcattnt gttcttgaat 420

<210> 31423
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31423

cggcgcgcg nnttganacc gtagctactt cgcacaccat agaacactca accctgtacg 60
cctangatct tcttcatcaa tggantccct tgcttttcgg attatcaatg gcagnggaat 120
ggcgaacgta cagagagagg agactccact tccccgacac gatgagtata aaagaagctc 180
atctccatac gacgccatgg atccgacctt ggacgattat cgatatgaat gcagcggata 240
gatagacgag cagcaccctt tgtgtttaca ggagccctgt atctgtagaa atctnctctg 300
atcatctctg aaaaaaatac acacacatga cctctattta tctcctaagt gtcacacgaa 360
atcgcatgta tattcatatc acacttgtat ttacattga attctgggaa ctcaactctg 420
gagctcacat ctggctgatt atgatcaccg acatttaatg ttgtgtcacc tcaactaatgc 480
cagaccccat accagattcc c 501

<210> 31424

<211> 440
 <212> DNA
 <213> Glycine max

<400> 31424

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tcttgatgag aacgttgggg tccacattcc ctgaaaccgt ttccttctct tgttctgcat 60
ctatctcggg ggtaaacacc cctgtgaaaa tgaaaaaatg gactcaaata aataacccaa 120
cacactattt atctcaaaga tatggctata gagatatgag attttgtttt tttcttcaag 180
gaacaaaaaa aataataata aagctttcaa gagtgaatg agatataaca tgagattttt 240
ctgatagatg cttaacatac catcaatctt ctgcaagatt ttcttaactt tgttcttgca 300
cccgtcacag tgtatgttca ctttgagaac acatttctgc atgtacaagc aatcccaaga 360
ggcaacacag aataaagaga aatttcgttg taaataagag gagatattga aatgggggga 420
taaaagtaaa acacaacatg 440
```

<210> 31425
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31425

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tgtctttntc agggatatag aaagaaggcc caggaaattc aaaaatttaa tgactgcctt 60
cacgtactgt ctcgtggggg gtatgaactg cttgacaaga aacttatgga ggagaagagc 120
aagcgtggac atgaggaaca ttcgtgtact gaaagcccaa cactcaacat cgacccacca 180
tccctagtgt caagacactt gaagtggaag atcgcccgca ctaagcggca tggccaaatg 240
acgtctgaag tggcacaaga aattgcagac aaaattgtca gttcatatat ttttttggtt 300
actatcattg gcaaataatg gttagctaac ctagtcaaat ttgttttatt caaattcaac 360
aattgtatat gcatgcagga ttcattacag gaacaagcaa cacaggggag ttntgttctg 420
catgggcgac aggacatact caacac 446
```

<210> 31426
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 31426

agagtcgctg atatacacct actccatcat attaagttcg tctgactctt tacgtctcca 60
aacggaccga agctccgaga cgctgactat atgctcgtac acgccacgtc atcattcact 120
ctttcttttg agtacaacga aaatcctatg cacctcgtat atctataaaa gatttcattg 180
aatgcttaaa agcctatacc tgaattaaag gccttacgtc ttgggatacc atatacttgt 240
accaantttct ataaaaataa atacgct 267

<210> 31427

<211> 444

<212> DNA

<213> Glycine max

<400> 31427

tgaacactct aaaaagaaat gcaagtactc aagatttttc aaaggtgaaa gaagtgccta 60
agagacattg agacatagaa gcctgcattg ccatgtttgc aaacaacagc atccaaagca 120
atgaaaaaat tcacaaggta tggaactaag ttactgaacc tgtataagag atgccatcat 180
cattgtccat tgtaatcatt ggtggagcat atggggagac attggatcga gcagtgaagt 240
tagatgactt tactgcagga tcagaaaccc tttcctggaa aaaaaaaaaa aaaaaaactt 300
gctaagcatc taaaagtcac actgaatatg attagaataa agaaagaacc tagagtttcc 360
agtatttcac aaatgcacaa atacttcatt agctttcttc cttttcgtaa cttttgctct 420
gtttcacttt cctatatattc ttac 444

<210> 31428

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31428

tncatcaggt gctaagccca atttcactta ctcacgctaa tctcgagggt ggcgctaagc 60
gtagcgtcac gatttcagag cctattttaa gcttgccttg tgtagaatta gggtagcact 120
tttatgacag cttctacaga cggtcagggc acagattttc agagcagcca cgggcctatt 180
tatggaaaag agccctagaa gcataaaaga ggagcaactt atgcattgaa gcctacgttt 240
tgtcatttga gagattattg agtagagagt gagtgtgaga tggtgagaag aggaggagga 300

atcccccttc ttatgtatgg aactatcatt ctctgctttt aatctcattt attattaggg 360
 tttcttttgta atggctggct aaacacccta gttgagggat tttaatgaac acttgatgta 420
 ataccaata tctaata 436

<210> 31429
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31429

ntgtcctcag atccctcttg ttggactaga cttataccaa actacattat tgtaacaaca 60
 tacttaaaac caaaacttaa tctgcagatc cctcttgtaa gactaagttt caattctgct 120
 tcattcaagt tctaaggaaa caatacattt cccaatgtta aaatcaccta actaggcaca 180
 caaatggttg atcagaccaa gagcatacaa aatttaagca ctggaagaag cattgaacac 240
 aagaaacaaa atcaattaga tatgaaaata attacatcga ctgttcatta taaatcccca 300
 acaagggat ttagccaacc attacagacg aaaccctaac aataataagc ttacaatacc 360
 taggaatttt attgatatga ttcttaaagt agatacaaga attaagaaac ttacctaaga 420
 at 422

<210> 31430
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31430

tgtagagagg agttgctaag aaattgaaat tctctcattn ttacaaagaa tttcaattct 60
 ttcattctct gttgaataaa attctttatt aaaatgacta aattcaattt ctctttaaat 120
 gatttatcca aacatgtaat tttaccttga aatatttcaa ttacatgatt aaaatgaatt 180
 acccagttaa aagtcacat ctaaacacac tcttattgat tttatccggc tcgtctagt 240
 gaatttacct gtagtcgaga caaaaaaat tacaaaaatac ccaaatggtt ggtcaaacaa 300
 tatgaaatcg aggagcagaa aatcaattcg tgcccaatt gttaccaat catacaaagc 360
 aatcaatca actctatagc gtagagcatc gtacaatacc aagtccagcc gcacaaaatc 420

aatc

424

<210> 31431
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31431

tgtaggatta tggngtaccc gtcacatgtg gtactatgtg gcgatcgggc gatggtacaa 60
 gtcgactctc cacgtccaca aatcacacat aaatccacca tccccagttg cccaccttca 120
 actgagctca cgtactccca catagccctt atcctcgttc ctctcaacac cgggtcccca 180
 tcaatccctc caagcttcca caacatccaa gcaattaaaa atccaaacat catgaactat 240
 caaaaccaag aaaacagggc agaggcaaaa aactctgccc aaaacacaaa caaataccac 300
 aactttcctt actcaaatac ctacagtaaca ttctcttcgt tcctattcgt tcaccgttgg 360
 atcgtctcga anaatttact ggaggtccct agtacataaa tctacacttt gaccgttggg 420
 atctgctaga aaaca 435

<210> 31432
 <211> 345
 <212> DNA
 <213> Glycine max
 <400> 31432

ctccaataat tcaaattggc ataacttttc acacggaggt tcgattcttg cacatgatat 60
 atcgagacgt tcgtaattga acaacggaaa ccctcgagaa attcaaattg tcataacttt 120
 ttactcggat gtccgattca ggcacatcac atatcgagac gctcgggaatt gaacaacgga 180
 agctatgaag aaattcaaatt ggtcataact tttcactcga atgtctgatt gatgtgcac 240
 acatatcgcg acgtcgcgaa ttgaacaacg gaagcaatcg agaaattcaa atgggtcatac 300
 ttttctgacc gatgtgcgat tcaagtgcac cacatatcca gacgc 345

<210> 31433
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31433

tgtatttaac aatgttntan aaatactttt aattaatatt tgaattttta ttcctttatt 60
 aatatatatg tgaggggtag aggggtgtcac actatatata attgtttatg ttttagtggt 120
 ttaatgataa acttatttga ctaacaatgg attagggta ctataatacc tanggtttag 180
 tggttatatgt cttattaggg ttcagtttta cttgaatacg taaggcttag tggatgtga 240
 ctaattaacg ttcaatgtta gttcagtact tanggtttat tgttacgtga ctaatatagg 300
 gtttatgggt gtgtgaatac ctaagggtta gtgttacatg tcttattacg gtttagtttt 360
 acttatatac gtaagggtta gtggtatgtg actaattaac gtgcaatgtt agttcaatac 420
 ttatgggtta t 431

<210> 31434
 <211> 291
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31434

tggagtctgc acgagacagt catanactat gtagatgtcg tgtttagtac acggcgatac 60
 agaatacact cattgtggca tgacatggga aaagaccaca actatagcat atacattaaa 120
 agatgtgtga gtccagtata catatagatg ataccttct gcattcattg gggctcaaga 180
 tgattatatg tgagtcttag actcttctac tgcttaaata tatagattct gtagacttgg 240
 acttacataa tcacgaagtc tatgatgtcg tggaccatga cgataatgct a 291

<210> 31435
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 31435

tttccgtaat tgtggtataa gtgtatcata aagtcttttc cataagaatt agtcacaatt 60
 gccttttgga atgagttctc caaacaaaaa actaaccaag caaaagagtc aaaacaacca 120
 cttacctaca gtatctacct caacccaacc ctcaaaggag ctatgcacag aatgtagatg 180
 ctacctcgac ccgaccttgg cggagctgca ccaaaacaac caatgttcgt gacattcgac 240

ggatataacg atgtctacgc cagtgcacc ttcacggaaa acatacttga atgaaaatgg 300
aagaagggtgt tgggagtagg tcagctgctt ttaagacaaa gggtgaataa aggaaagtta 360
aatacatca 369

<210> 31436
<211> 412
<212> DNA
<213> Glycine max

<400> 31436

tgccaccag cttgccagg cgagctcagc tcgccaggc gagcaagggt gcttcctcca 60
gaagcaacag ccttctggag gaaggatctg gaaggcccaa gtgggccata ttgctatttg 120
cactccatt ttactaaatg caccctctc tatttttttg gtaattcttt ttccgtaacg 180
ttacgaaact ttacgaatt tcgtaacgat acttattttc cttccgcaag gttacgaatc 240
cttacggatt atgtatttac tcttttttag ctttcgaaga agttacgaaa actcacggat 300
tgcgcaaaaa cacctctttt cgatttcgc cacattacag aatttcacgg atcgcgcaag 360
cctgcttct tttgatttct gacacgtctc gggacttcat ttattgtgca ac 412

<210> 31437
<211> 443
<212> DNA
<213> Glycine max

<400> 31437

tgagatatcc gtaaagatca aagaagaggt gaaaaagtag ttcgtcactg gctttttggc 60
agtggttcga taccgccaat gggaggccaa tattgtgccg gtccctaaga agatgggaag 120
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcctttt 180
accacacatt gatgtccttg tggataaac atccaatttc actttgtttt ccttcattga 240
cgggttctcg ggttacaatc agataaagat ggtgccggag gacatggaga agactatgtt 300
cgtcaccttg tggggaatgt tetattataa ggtgatgttc tttaggctca agaattgttg 360
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420
agtctacatg gatgacatga ttt 443

<210> 31438

<211> 381
<212> DNA
<213> Glycine max

<400> 31438

tcaataactg ttcatgtcca ttacctgtag aaatctcaca aatgtctgga cttaccttct 60
taaccttaac ctacaaccag gtctctggac ctattccatc tgaattggga aagttgactc 120
gccttatggc acttgatctt gccttcaaca atttcaactgg accaatccct ccaagccttg 180
gaaacttgag ttctctccta tggctaacc tttcagataa ttcgttatct gaagaaatcc 240
caccagagct gggaaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300
cgggaaaatt tccttctgag ctaacgagaa ttggaaggaa cgcaagggcc acatttgaat 360
caaataatag aaaccttggg g 381

<210> 31439
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31439

aactaagctt gccagcggtta ttatggatct ttcaagatta tcaaacgcat atgtcctttg 60
gcctatagac ttctgttgcc agcagggctc cgcattcacc tggctcttca ttgctcacta 120
ctcaagccat ttcttcaaga tgttgacaat caactcgcgc cacttccact cccaccaacg 180
accttgata accaacctgt gatctcatcg ttagctattc ttagctcgcg tcaggaaggt 240
ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctcca cgtagacgac 300
acctcgtggg aggactgggc cacattgaag ggcacctatc accttaagga caaggtgatt 360
nttgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420
acaagaaaga tcacaacacc tcga 444

<210> 31440
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31440

agaattatac aataacactt tttgcccgcac catgtaagcc ttcttaatta tcatgctatc 60
atggaacttc ttggtctttt cttttagaaa cttggcattc tcgtaagctt ctaggaggat 120
ctcatctaac tcaactcagtt gcaactttct tctctacca gcttgatcca tagagaagtt 180
gaaggcttct actgcccagt atgctttgtg ctcaatctcc actggaagat gacatgcctt 240
tccaaagaca acccgataag gagacattcc tatgtgtgct ttttaagaag tcctatgtgc 300
ccaaagagca tcatcaagcc tagtactcaa atctttcttg cttggctaca caatcttctc 360
taaaattctc ttgatctccc tgtagagat ttctgcctgt ccattgggtt gtgggtggta 420
tggtatggat accctgtgcn 440

<210> 31441
<211> 435
<212> DNA
<213> Glycine max

<400> 31441

tgaatatatt taatagtact taacaatata cgggatactt ttatacctat aagtacgtgg 60
cactccctaa aattgcccta atagtgaaca atttgaatta ttacctaata atcttaggtt 120
cagatttcat taccgtaata ttataaaaga aagtaatagt gtaggactta ttgttcttca 180
acttatttat acatatcttt ctattttaat ctcaatttaa tcaaatagat tttttctttc 240
cttgtaatat tgatagacgt actttcttac aggaaaatta agtaaaatat ttcaaataatg 300
tggtgaacat tttctaaaaa agacagataa ttataggatt attactagca ctgtatgcac 360
caaatacaca tctattctgc tgaaactaaa gaatcagata taatgaactt tgtgaaattc 420
ttgacagtgt gtact 435

<210> 31442
<211> 379
<212> DNA
<213> Glycine max

<400> 31442

cacttaaagc tcttcgtgca atgaactcta actatctacg ccattaatgc ttacattaaa 60
tgcattggtcg ttcttcatgc agagagatca tgttgataga ttaacgtgac aaacacttca 120
gccgaaaagt cacttctttt atcaaacttg atccgcatag tgaaacgccc tttgatcaag 180

gtcaacactc tcaaattatg gacttcattt attattcata agattttgac ttgatagata 240
aaagaatctc aaacgcacag tattgaataa aggtctttaa tgcaacacct acatgctatg 300
tcacatcatg tatgtgagag acatcatctt gaactccaaa cgatgagata cagatcatga 360
tccggccaca cactacact 379

<210> 31443
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31443

tccatcaagt ggtaatcaga gcagaagagc ttcaagtagg tgctccttaa acctccatta 60
atTTTTtGct ttaccttctc ttccattatt ttttcttcat tttttctcca cgtatctcct 120
caaatgtctt gtgctaaatg ttcttaacat gattctttag agttttcacc gattaaactt 180
gctagagaag ctagatttta ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240
tgaattgtgt tgagtttaag ttcttttgag ttttgtcttg ttattttttg tggctgaaat 300
ctaaaccata aaattcttac aaaaatatta aagtagaaga aaacctcaa aatctagagt 360
gacttgttca cctattgtag ttntgtcata gaagtcatgt ctagtcatga aacttgtcac 420
ataagatttc ttatg 435

<210> 31444
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31444

ttntaactct taatattatt ttttcttata aaactgcaaa caagtgcaat tacattccat 60
ataagcatat gctctaaata aacagctttt tagctcttag tattctaact tgatgcaata 120
aaataattga tgtttgcttt tgggtattat tcagataata tttttgttaa aaagggtttta 180
aattgaaaga ataaaaaatt tcatacatga gtataaacia aagattgttt tgtagataaa 240
cagagtata tattacaact tcaacaaaat cattcaaata atatggcctc aattttgatg 300
tgcattaaag aacaaaacta cagaaaactt agcacattca agaagcatag ctactttcat 360

atttctgctt gttaatgttc cctctttttt ttgttccgtt attttttatg tcaagcatag 420
 attntcccat gt 432

<210> 31445
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31445

ntataagcgc gggctctggga gacaaaggtc aagtggtcgc gatatgcgaa gatgatgttc 60
 cgagtgcatt ggatttggtta cgaccatgcc ctcttgattt ctagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
 ctctatagtt aggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240
 ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300
 ttcatttgca tgttaacttc tttatttctg aaacggaaga tccgatgacg agtccccga 360
 aggtactaat acctgggacc cgcttatcaa ctctcgagaaa gaaacgaatc aaacggaaga 420
 tgaagggaac gaggatgtgg gact 444

<210> 31446
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31446

tgtagaattc accccaattc cagtgtccta tgctgacttg ctcccatatc tacttgataa 60
 ttcaatggta gccataacct tagccaaggc tcatcaacct ccattttctcc gagaatacga 120
 ctogaacgca acgtgtgctt gtcacggaga agccccgggg cgttccattg agcatggtag 180
 ggctctaaag cgtaagggtc aagggtctaat tgatgcgggc tggctgaaat ttgaggagaa 240
 ttgctgtgta atcctgacat tgacaagaga tgccacacat ggggcaattt tgaaagctgt 300
 tgttaggtgt ccctaatac tcatcagggt ttccaagttt atgccattat tgtaaaccac 360
 agctacaatg ttaaatgaaa tggataaagt tgatatcttt gtccctcatc ctctcacaaa 420
 cgcatgtttg cttattcaac tntcatcg 448

<210> 31447
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 31447

cttgccctttg caattccaag aactagtgga gcttccaagt atatgacatg taccatttgt 60
 aattttccta tctaatttgc atcttccaaa atcagagtct gaaaaacctt ttaagtttaa 120
 ggaagttoct ttggaatacc acaaacctac attgggttggtg cccttaagat acttaatgat 180
 cctcttaaca gtagttaagt gagattcctt tggattggac tgatatattg cacataatca 240
 aacacttagc atgatatccg gtctacttgc agttaggtag agaagtgatc caatcatacc 300
 tatgtatctt gattcatcca ctgatttacc tttctcatct aagtcaaggt aggttaatgt 360
 tgtaacgcct ttaaatttca ataactgaaa atagatgttt gatgtatttc ttgtgttatt 420
 tgattactgg gattaattgg atgagttg 448

<210> 31448
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 31448

tctagaagga gatcaactgg atgttctatg cttcttgaag gtggcagtc atgaggaatc 60
 tccttggaag agacatcttt aaattcctgc aataagggtt gaacactagg agaaacataa 120
 atagttaact gattagaatt atcactctct ctcttttggtg tatcactctt ttctctgggt 180
 gtatcactct tctttttcat attcctttgt ggagcctcac tattttcttt ctcttggtct 240
 ctcttttctc tcattctgat ttgggtcatca cacacttctc taggtgatag aggtttaaga 300
 gtaaacaagg aagatttgat caacaaacgt tgcatttggtg tagtccacgc gtccagaaat 360
 aagcgttgag attcatccag ttgatgatat acaccaccat tgtcaccagc tcttgccatg 420
 a 421

<210> 31449
 <211> 452
 <212> DNA
 <213> Glycine max

gcctcttgaa gaaacttttc taacttagaa acttttcttc acactaatca tgatgatgca 120
 tgatgcaata caaatatcaa atgtactaag atgcaacaac caagataaca accaatacaa 180
 atgccactca agggatttag gcatgtaaaa gtgaaaactt cttcaagctt ttctttgagc 240
 ttcaagcttt agcctttaag ttgttcacca tgttgctcct tctatctcta acactgcact 300
 ccattocatc ccaccatggt tgtccttaac cagcaaaaac gactntgtta tcctttgtgt 360
 agaccaagca atgaagtaca taaaatttgg gataaatata cttggacacc tagtangaga 420
 gagagagaga gagagaga 438

<210> 31452
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31452

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 tgttcaaagg acacttttaa tcctttttta atcaattgac ctacacttag caagttttgg 120
 tcaatgttag gtacataaag aacatctgat attaatgtga tacctgaaca tgttgaaatt 180
 gcaacagttc cttttccttt tactgaaata tagccaccat tccaattct gacctttgag 240
 acattanttg gcttcaaate cttgaataga gtcttatcat atgtcatgtg gtttgtacaa 300
 ccactatcaa tcaaccaact ttacttgat tcactactca agaagcatgt ggccacaaac 360
 agttgatcct cctcttcttg attagcaatc tgagctccct catcatgat 409

<210> 31453
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31453

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 aaatcttcag aaacaagtca tttgaagaat tgtgactttt ggaaatgtat ttttcaaaat 120
 caatcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac aaatgtgact 180
 ctttattttg aattttgaaa attaaaacat ttagaagctc tggtaatcga ttgcaagtat 240

tgtgtaatca attacataag tttaaaatac tttaaaactg tttaaacata agttataact 300
 cttgaaatth gaaatcttaa cgttttaaaa cactgggtaat caattactac cttctggtaa 360
 tcgattacca gagagtaaaa ctctttggta atgaatttgt gaaaacttct tgtgctactt 420
 caatatttg 429

<210> 31454
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31454

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 gtaatggaga aggaagaaag atgattggag acgccacttc aaggagaaga tgaatcaaga 120
 agaaactcac caccatagga agccatggat aagagcttga aggtaggaga agatgagtgg 180
 agggagagga gaggcacgaa attttgagcc tcaaattgaga tctgaacttt gaagtataat 240
 tcttaaattga tcaaagttga aaatatgcac atacatgacc tctattttaa gcttaagtgt 300
 cacacaaaat tggaggggaaa tttgaatttc tattcaaatt tcaacttgaat ttgaaattga 360
 atttgtggag acaaattttc gagccaaaaa ttcactaatt atgattagtg aattntagct 420
 at 422

<210> 31455
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31455

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 gagtaaatac cagccccaat tttatgtgga cctaattgag cngngaaggc aggacgtgtg 120
 caatatatga gaaacaattg tccgtttcac ttcctaaaga tacagagatc gacgatgact 180
 aacacccact tctgtgcggg gggttctcca tacaggggag catcatgtga tctaaaggac 240
 tacaacgggg actattggaa tagctaacag gagcgtccaa ttttcagcct acaacgttga 300
 acgttccata gatagactag agtcatacac cgcattgaaa acgcacacaa ttaacgtgag 360

taacgtagat atgcatgagc taatgtgaac gctctcttac cctttctaga attcaatcga 420
catagacacc tcgtagttct tccatctcat gatgaaaggt accacaaata gtctcgactt 480
tatttcg 487

<210> 31456
<211> 303
<212> DNA
<213> Glycine max
<400> 31456

agagcagagg catcaacttt aatgttcatt ttattaacat tcggtttagcc cataaaccgc 60
tggcatgtta agacacgcgt tataattctg cataaatttt acattaatat gccattttga 120
atatgcgata tatgtgaaag gaacttctaa tcacacctgc cgttataaaa caatattatt 180
tattctgaag gtatagaatg gtatgataat cgttgacgtc ccaactggcgt acttagaccc 240
ttccttatat attaaagttt tacaacgtcc cctgaacaca acatctttta tgtatgctca 300
cca 303

<210> 31457
<211> 407
<212> DNA
<213> Glycine max
<400> 31457

cttgcttgag tgatgatcca tgctctcgcc catctatgga tcatgtgtct aagaagctta 60
tgagagggat atcaccttta gcacaccagc tccctatgaa tagactctgg acaactatct 120
ttaaggacta aactaattca cgattttggt gttcttggtt acttatttat acaccttata 180
tcctttatct tttgatgtaa gcttgctcgt gttgtcattg taatacacca tgtataagtt 240
actaaaggtc gagagtaact agattgtcgg gttcatatac tatggcgatt gtgagaatga 300
attggcacat tatcttttatt gggaaatgct tgggtgtagag tgagcatgca tatgtacaag 360
ttagtggtga gaataacata gcagtacaaa tgattgactt ttaaatt 407

<210> 31458
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 31458

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 gctcacctcc ttgagatgaa aagctagagc ttagctacac ataccctct aatagctaag 120
 ttaacccccca tgccaaaata catgaaaata caaaaaagtc cttactacaa agactactca 180
 aaatgccttg aaatacaagg ctaaaaccct atactactag aatggccaaa atacaaggcc 240
 aaaaagaagg aaaacctatt ctaatattta caaagaagag tgaaccaac cttgggacat 300
 gggctcagaa atctaccctg aagttcatga gaaccctang gccttcttta gccactctag 360
 ctcaatcctc ttggagtctt ctatccaata cccttggggg gtaggaatgc atcatcaatg 420
 ctatgcaatg caatcaatat gcaatatg 448

<210> 31459
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 31459
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 tcttaagctg tcgagaagca tagggcacta cctgtccccg ttgcataagc actccacca 120
 aaccatctt ggacgcatca caatacacca caaaagattc actcgggtta ggtaacacta 180
 aaactagtgc agtgggttaac ctttccttaa gggtagcgaa actactctca cattgggcat 240
 cccacacaaa aacttgaccc ttacgagtaa gcttagtcaa aggtaaggct agcttagaaa 300
 aaccctctat gaatctacgg tagtattctg ctaagccaag aaagctccta atctcaaaca 360
 ctgacttagg actctcccaa ctcatcaccg cctctacctt ggaaggatct actggctatc 420
 cctccttaga tataacgtgc cctaagaag 449

<210> 31460
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 31460
 tatggggcca aatgctttgc ttactgcagg caacacattg atagctagca tagctcattc 60
 acggaaaggc cgggtggagga accgtgtaat tacttggtta caccatatct taaagagaca 120

cagttggtgt atcttgtctt gttgaattga aaactgtgct atagacaccc ttaaaaaagg 180
aattgcttga aatgagcatg acttttttct tttctgcttc tggggtgaaa agtctgtata 240
taatatagac tttcatagac aattgatttg cggccacaga tagaggattt ttggaggctt 300
gactggagag atgattcaat ttctgaagga aatcttcagt ctcattctga gatgtttctg 360
ttagctgata atagtgtcat agaaccagg aaaattagtt gaattttgaa gacagagata 420
ttgatactcc aagaggggtg gagaatt 447

<210> 31461
<211> 420
<212> DNA
<213> Glycine max

<400> 31461

tcacgcttgt tatttcatcc acatcagact cattgttcaa tctctcatca acaacaccca 60
aaatatatca ataaaggtac tgtgccctac aatgctatca aacaaacaac accctttaac 120
actgacacta gacagtatag tagcacgcag ggtgccctag ccgaaggcct tgcaaggggt 180
tgtttggttg gtcactatat acagtcttgt ctcttcctta ccctacccta catgtcacta 240
acttcaaaag cccaacaaca aaaagtgaga atgaacacat gaagcttacc tcgacaccaa 300
caacgataat ggcaacgacc tggcagcgag tgggagttaa aaagaagagt cgtggcgtag 360
agaggaacac ctacatgggc aaaatgaaag ttgtgacaga gacgaagagt cgtgactgac 420

<210> 31462
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31462

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acttttagtgt ctaaaattaa gttaaattaat tttattttct gaaattgcaa tctgtcagtt 120
tcaagtgtaa catgtgactt aagtgattaa tattaacatt tgtttaagga tcaaaatgat 180
actaagtggg taaaattatg gagttagttg aaatgactaa gaattttggg atttatttaa 240
atttttctta attttaagga ctctgtgtaat agtgctttta cactttcaac actaaaagtt 300

ttttcttttt tttcta

436

<210> 31465
<211> 429
<212> DNA
<213> Glycine max

<400> 31465

tcaacattca atategagcg tctcgatata ttacgggact ctatcagaca tccgagcaaa 60
aagttactgt cgtttgaatt tgctcagagc ttcgataatc aatttctagt gtctcaatat 120
attacgagac tcagtcagac aaccgagtaa aaagttattg tcgtttgaat ttgctcagag 180
cttcagtatt caattctgag catctcgaca tattacggga ctcaatcata catccgagta 240
acaagttatt gtcgtttgaa tttggtgaga gcttcgataa tcaatttcga gcgtctcgat 300
atattacggg actcagtcag acatccgagt aaaacgttat tgctgcttga atttgctcag 360
agcttctgtc ttcaatttcg agcgtctcga catattacgg gactcactca gacatccgag 420
taacaagta 429

<210> 31466
<211> 436
<212> DNA
<213> Glycine max

<400> 31466

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attggttgac cacaacagcg ctggggggcg caacggacaa tggctcttca aataaacctg 120
ttgtacatga acaaacatta tatcatgcgc tgaccgtgcc aaacgaacaa gcgaagtcatt 180
tgcataattg ttacactaac tatattcaat gtacctgaac aaaatgattt ccaaacacgt 240
gaccgacaca tatgatgcgg tggccagaag agtcaggtgg tggttgactt ctaagaggga 300
aaaatgtcat gctttgttgt tgggacaacg atacaaggat tacgttatac cgtgaagcaa 360
tcacatatcc catgtctgtt atatccatcc acttgtccac actaacctga atgaacacaa 420
catacacatg taagta 436

<210> 31467
<211> 430
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31467

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tgccacctag ctgcacctgg cgagctagcc cgccttctgg aggaacttcc tggaaggccc   60
aagtgggcct ggttgctatt tgcactcccc tgtttactaa atacaccctc tgcctttttt   120
tgctgattct ttttccgtaa cgttacggaa ctttacgaat tctgtaacga tacttgtttt   180
cttttcgtaa tgttacggaa ctttacggat tacgtaatca tccttttttt ggcttttgga   240
atgttacgga acctcacgga ttgtgcaata atgcttcctt ttgatttcca gcatgttaca   300
gaacttcacg gattgtgcaa caatgctttc ttttgacttc cggcctgtca cggaacttca   360
cggattgcct aacgataggt gccaaagtacc tcgaagcggg gaagcanagg ttgcatgcta   420
tcaaacaatg                                     430

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<210> 31468

<211> 435

<212> DNA

<213> Glycine max

<400> 31468

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cttaattaat tgtcttgata taaaatttct acacagacta ataatttcaa agtctataca   60
gtcgtattac ttttaaattt ggatgtaatt gtgtgtttta ttttctaacc cattaaaaga   120
gtagaaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat   180
ttatttcaat acatgtgaaa ttttttttaa aattatagtt tatacgctat ttatttaaaa   240
cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga   300
atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat   360
aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac   420
tatattatatt attga                                     435

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<210> 31469

<211> 359

<212> DNA

<213> Glycine max

<400> 31469

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agcttgatgt ttctttaaca tttatcccta tagaatgggt actttggggt ggtgagttcg   60

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ctgtttogca ggcttttgac ataatcttgg ctcttggtcg gtgggttggg gagttggtga 120
 cttgctatgc tctgagattc ctgagttggg gtgttctcca gctggtgagt ttgttggtta 180
 aactgctggg tttgtttact gcaatgattg ttattgggtgc accattttct tgtttgctga 240
 gtgccattgt tttgttttag ggtataagaa aaccagacgt actttgcatt ggatttttgc 300
 tttgaacaat ggttttgata accctaaaca ctaaccctag actttgttgt ctcaactct 359

<210> 31470
 <211> 157
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31470

ctgcctccta tatcgactct tgtctctcta tgaggagggt gctgggcctc gataaccagc 60
 tactaacaac aattcacatn tatatatattt attcaactaa ctgagattag atagactctt 120
 tatttgaaga acacatttag agtgtgggtg gatgaga 157

<210> 31471
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 31471

aatccatgtc ccatgcgaga ttgtcaatat tgtcaaaatt aaacgatttc tgtactgagg 60
 caagcccagc aatattcttt aattaatatt aatgatatt tgtatttttag gaacagttga 120
 agaatataaa tgtaaagaaa aatttggcca tcattacttg atttcagctc atatgagata 180
 catcattaaa aatttcagac ctgttcgaat aaataactta attaagtgtt tattatatta 240
 gtgtttggat aaacaggatt tagagtctgg ttagatatat agtcagtttc atttatatcg 300
 aagaagtcac ttattcaagc catcatcaca cgtaacgtgc atgttcaaatt aaatacttat 360
 tcacgctctg atct 374

<210> 31472
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 31472

agcttttctta tgaagattcc taaagaatct agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctccttgaga tgagaagcta gaacttagct acacaccccc aataatagct 120
aagctcatcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttac tacaaagact 180
actaaaaatg ccccgaata caaggctaaa accctatact actagaatgg tcaaataaag 240
gccaaccca aggataaacc tattctaata tttacaaaga taagccggct catacttagc 300
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360
tagcccaatc tacttgaggt cttctacca 389

<210> 31473

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31473

ctaagcttgc caattaacct gatattgaga gataatgatt attaaacaca ctaaataaaa 60
ataactaagta tttattacct atacttaaca aaaaataactt ataacattac aaaataacca 120
taaattggga gagtttgata caatttatac aagttttata cacaaaagtt aatcgttttc 180
accgactaac agttcattac atcacgtcag gatacaactg aaaataaata acaagtgcac 240
cagtgattct taattatgtg agtcatcagt tcgaccatat gctggcaata atcgaagaga 300
ctatgaactt catcgggagt agagtacata tcacccatca tcttgggtct tagctagcag 360
ttcaggagtt cttgactctc atttagcgtg agcacaaaacc tattcatcca cttcatgctn 420
tcctgatgca gtagctctat cactttc 447

<210> 31474

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31474

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ctacattact aaacctcgat cctcgtcag actgaatcaa tccaagcttc gtcctcagat 120

ctctcttgggt ggactaggcc caattgagac agccctctta ggtttagact aacttacact 180
gagttntgtc cgcagatccc tcttgtaaga ctagactcag ctcaagcagc ttacgaaagt 240
ttagcctaatt ttagectaag cttcatccgc agatccctct tataagacta agcctagact 300
aaacaacatt attgtaacaa cataattaan accaaaactt aatccgcaga tccctcttgt 360
aagactaagc tntgatcctg cttcaatcaa gttctatggc aacagtacat t 411

<210> 31475
<211> 461
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31475

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ttgaaggaat aaaagaggta gagaagtgga actttgaagt atgtctcaca agactctcat 120
tcatcaaagt gaccacaagt gttgaacatg cttctattta tagactaggt agcttccttg 180
agaagctttc ttgagaaaac ttccttgaga agcttccttg agaaaacttc cttgagaagc 240
tagagcttag ctacatacac ccctctaata actaagctca cctccttgag aagcttcctt 300
gagaagattc ctatagaagc tagagcttag ctgcacacac ctctctaata gctaagctca 360
cctccttgag atgagaagct agagcttagc tacacacccn ctataatagc taagttcacc 420
cgcattccaa aaatacatga aatatacaaa aaagtcccta c 461

<210> 31476
<211> 262
<212> DNA
<213> Glycine max
<400> 31476

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ccatatcgct taacgggaat tttggagctt ttgaatcggt ctgggaataa gtgtgggggc 120
gttttgtttc attggataac ctgctttgtt ggctatgctt catgatgtat tttgggcat 180
acttgatgta cattgatatt ggtaaatgtg gacatgctga tgaaatgtgc ttctcaatgc 240
tatagacaaa aaaaaaatt cc 262

<210> 31477
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 31477

acaattgcat cacctctcaa tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60
 aaacaagagc agtcctttgc tttgctcaaa gaaaagctta ctaaggcacc tgttctagct 120
 cttcctgact gttctaaact ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180
 ctgtattggtt acaagggtggg cactctattg cttattctaa tgaaagactc catagtgtccc 240
 ccctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 31478
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 31478

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 ggatgccccca cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120
 caaaactggg catgcatgcg cctatgcgga cgctcaagtg tcaaatttta tggatcatgtg 180
 atgctagggc tcacgattca tttcctctat tttaaatcaa cccaatgttt ccaaaatatg 240
 ttcttttatc gatttgtgca ttctccaag tccacttctg gcgtgcggag aaaatttcac 300
 agcattcacc ct 312

<210> 31479
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31479

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 tgagtcacgc tgaccggcgg aaatacccca gtgggttagcc gtataaacat tcttcttgc 120
 atctgtaaga cgaaaagcct gatagcatgc gaagactgac atcgtcttct gcgcccttcg 180

tcaatcgcg cgcacaagcc cattgacacg cggagattta cgtcatcttc ggcgctcaca 240
agatctgtca tactgacatt tgagtcacgc tgactggcgg agata 285

<210> 31480
<211> 398
<212> DNA
<213> Glycine max

<400> 31480
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aatatatcaa gacgctcaaa attgagtaca gaagctctta gcaaattaaa acgacaataa 120
ctttctacac agatgtccga ttgggtcacg taatatatcg actcgctcga aactgaatac 180
cgaagctgag agcaaattca aacgacaatg actttttacct cggatatccc attgagtccc 240
ctaatatatc gagacgttcg aaattgaata cagaaactgt gagaaaattc taacgacaat 300
aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgctc aagatttata 360
acggaagctc gtagcagatt caaacgacaa taactttg 398

<210> 31481
<211> 340
<212> DNA
<213> Glycine max

<400> 31481
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tacctggaga tatgtcgtgg ggggtcaagag accttgtgga cgtgaggtgt tgtgctattg 120
cccaaaacca agcttgacca atcaccgacc aaccgggtca tagtctgtct gtgtgaacct 180
gtgatgtacc taaacaggcg atctcctgcc agtctataga tgaaacgaac taataccaca 240
aatcaaggat gctagtgtgg tggctggcca gctgtgaact ttgattgata tgtggagtat 300
ggcctctggg aatcgattac caagggtgtc taatcgatta 340

<210> 31482
<211> 264
<212> DNA
<213> Glycine max

<400> 31482

atcactcgtc ccgggatcct tatagtcact gcaggcagaa gcttttttat cgatgcctga 60
 tgcgtatatg tcttctatag ctcatgggaa agccaaattc tcgacaacac tttgtgcaact 120
 tctgtaacta aaccttcaca aggagacata ggcaaccctg gaactctgcc aagccaatgc 180
 caaggtttat cacaatgttg gaattaaaat cagtagcacc aaaaacaaac ctcaaaagct 240
 acttatgggg cattttacat acaa 264

<210> 31483
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 31483
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 gggagattga tgcgatgatca ttagtgtaat ctgtaattag atcgcaatta gatgataata 120
 ggaggctgag ggagttagtt agcaatacca cgtgtcatta ggtagtggct ctaaagaatt 180
 gattattctg ttacgttttt ctattgggaa gtttgctaag aggtagctag taacaacttg 240
 ttatatatag caagttgatg tgaatgctca tttttacatc tgaattccca atactctttt 300
 aattcttcgt attcttcatt ctataatcaa taatattata gactctctct gattgggatt 360
 ctcttcttca tttctagttc ttccatttga tcttaaatac tagaactata tcaacttgga 420
 tcagaattgc accttcata ttca 444

<210> 31484
 <211> 164
 <212> DNA
 <213> Glycine max

<400> 31484
 tttctttttc tcagcttaag cataagcttt tgaagaaact tatctcattt tataacagaa 60
 gctaatacaa acaggaccta cattcaaatt catttaaacc tgaccacaca ccacaataac 120
 tctcccaaca ttatttcact agttgaattc accaaacaaa acca 164

<210> 31485
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 31485

ttgatctcaa cattaaatgt agaccttatg atgggtcaag cttgttatca tgagatactt 60
 tacacacaga tttgctcatc ataatatgat aatgcaaata gatgctgatt ttaacatttg 120
 tattgatttg catctaata caaataatcaa gagtcctgat ttgttttaag acataaatgt 180
 ctttagactt gacaacacat taagaatcaa caaatataca gagtcaatgc acatgcatca 240
 tccacottca acacacaaaa tcattctcct caatcaccat atagactata acattatatg 300
 tatgttgacc ccatggaaaa ccataacaaa gtaccccaag ttccc 345

<210> 31486

<211> 259

<212> DNA

<213> Glycine max

<400> 31486

ttgctttgaa gaaatgtgat atgaacctta cacacattca ttatatctct ttatgtgaaa 60
 agctctatgt agagtttaca acagctctca aaacactttg attatcttga gagaatggac 120
 taaaagacga gactatatat cctgatgtgc gacactcaaa tagttagtcg ttgcgcaaca 180
 ccaacaacaa atcaatctta tctgtatata atcgataaca atttggtacg acaataata 240
 ttgggctaca tcgaacttg 259

<210> 31487

<211> 302

<212> DNA

<213> Glycine max

<400> 31487

cgtctacat aatatttggg atgactaaaa ttcattgatta ctatataatg tcgaactggc 60
 ggcggagtgt gagacattgc cagaaatcat gaaaagacat gtagttgcat gaaattatgc 120
 gtctatcttg atataacaat atacatatga ataggtgtga ctctctgaaa agattaaatc 180
 tttacattac cagacatgac atagttttaga aacataacca atttaccatgc agaataaac 240
 atttatatat acttcaccca tccctttcat tcgaatcgct tcctttctct cttatgcata 300
 aa 302

<210> 31488

<211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31488

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agctttttaca aaacactgtg gccatctttg tctttagaag ctaaagattt tgtcaaacgc 60
atattgaata aggatccaca gaatcgaata tctgctgctc aggctctaag tgagttattt 120
ttcttgccctc tatcatcaat ttcaataata tctagtaaga cattnttcaa gttgtcagcc 180
ataatcttgt gcttgcaggt catccttgga tacaaaattg caataatgta aaagttccac 240
ttgataaatt gtcagccata atcttatgct tctgttgga atgaagtatt cctactttat 300
tccaaccctt gtgtttgaaa atgatata atcttctgac cacaagtatt ttcgatttat 360
ttctctcttg taaacctctg agaattga 388
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<210> 31489
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31489

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ntagtcaagg aaagtaaccc anatatgacc aagatgagag tggtgaaaga gcctaacaag 60
actntcctaa attcgggttaa agattcaatc ttgggtgatg ataatgctta tganacggta 120
aggaagttag caaatgggccc taatagatat gttataactt ggcaaggata cgatatcaac 180
aagtattcat tctacacgaa atcataagat ggcaagagta caatgcanaa cagtgggggtt 240
agtccaaggg ctgaatctca acactttggt actgtacatg atgacaatcc ttgtctagct 300
cacatgcctt actttggagt cattgaagaa atttgggagc ttaattatct aaaattcatt 360
gtctgtgtn ttaagtgtaa gtgggttgat agcaatatca atgtgcanat cgatgatatt 420
ggatttactt tggtagatct ga 442
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<210> 31490
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31490

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 ttgcagatgc cattgggggt aactctgctg ctgcggcttt agttcttttt catttttatg 120
 tgccaaaaaa agagtctcta acttacatta cttccattga ttcatagttt tgtttggccc 180
 ttttttcctt aattttttta aactttaatg tgacttggtg gataatatat ggagtagagt 240
 ttggatttag ccttgtgtca tctaaagagt gtgttattgc ggcgttcaat atgcacgttc 300
 cacttcgacg cttccattnt cagcacagta acgtagaagt aacaatctgt taggttaaaa 360
 atattttgta aata 374

<210> 31491
 <211> 316
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31491

cggatcatctc tagagtcttg gtggatcatc ccaaagtttg tgtggatcatg gtggataggt 60
 tcatggtagag gtggatatac acctcttcag ggcgggttaa gatggctnng tagctatagt 120
 gaatgggtat ggttgaaggt aggggttttg gcaggtagag gcagccatgg acagcangtc 180
 gaaccaagtt gtttaggaata gaggactagc taacgacact aacctatatt tgatcattct 240
 tctctgattc ttatttcctt cctaggggat atntatagtg atcatacaac ggataaggct 300
 tgcattcatg acccat 316

<210> 31492
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 31492

agcttcttct attgtcaatc acccagcaag ccttggcacg agagtgtagc aatgaatgtg 60
 ttgatgaact actagatgga tctgtgagga tcttggatat ctgtagtaca attaaagatt 120
 gcctactgca acacaaggaa agagtgcagc aacttgagtc agctattcgc aggagaagag 180
 atgccgaggc cggattcaca gtttcgagtg gaaaatactt ggcattctacg aagcaggatg 240
 aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcattttg 300

cttcctcaaa caaagacaac gagacattgt ccatgcttag cttcttaaaa gaatcagaac 360
tagtcaccgt gagctcatta aaagccttct tgggtgtatc act 403

<210> 31493
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31493

tatgcgctat attgcatccc aacagctcag gtccaagagc tacatctttg gcgatatctt 60
tcttattgac tccagctntg gtcacaaaga atatgacctt taatacaaat attcaaattt 120
cagcaaaaaga gtcaattgat gcctctagat gagccagttt attgacatat aattattgta 180
attaatatgt ctatgcagca attaattcta catgaaggac aacttagtag gcacttgatg 240
caciaaattcc cgtttatgac tcatgctttc tagatgtggt tngaagtgtg tgaaagtatg 300
agggttggtta ctgataaata caattntatc actgcacaag attacattca aattgatnta 360
atgccccaat aatttatctg gtgtcctgan aaaatatgaa gaatcatttt ttttctctct 420
tttcaatat 429

<210> 31494
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31494

agctttatgt tttattaaaa acttattaag cttaatagag caagtattta agctctataa 60
aagcctttta attttcttca ttcaagtatt tggcttgtat actatagaag tattcagcca 120
taccgaatat ccaaaaatac cctcaatacc tttaagaatt taaagcaaac ctcttaaaaa 180
gtattcaggt atccggctag gccaaatact tgaatgctta aaatccttag gcctataaag 240
cctctcaaaa gtattcaggt atttgactac gtcgaatacc tgagcactca gaatcattag 300
gcttataaag cctctcacia gtattcaagt atatggtaag ctgaatacct aaactcttag 360
actccttagc tctatanagg ccctaaaaat attcatgga 399

<210> 31495

<211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31495

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 caataatata ttgaaacgtg ggccaagtaa tcacattgac aagtgtactt aggaccttac 120
 ttgaatcagt aagtgaatt gatgtcatta ttgtgaaaaa gtttgcatta taagttcttt 180
 aattacattc ttttacttca agacacatng acaacttctt gttatgtgtc cacgggacaa 240
 tattgttggt tgattctctt ctttacgtaa aaagcctgat gttcacatca aggttgcaat 300
 taacagggtta ttggtaaaat tataacaaat ntattgttta ccaagtgtag tatagcaaca 360
 aagtatcttt cgttatatac gtttttgtta ttgtggaaac tagtgcaatg aagaaattat 420
 ccagtaagtt g 431

<210> 31496
 <211> 400
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31496

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 aactctgtca aattcattgg acgatatact ttgcacttaa atagttcatc ctttgcctag 120
 caaagttaat ttgtttatth gagcttattt gttattcact ttattgagtg tgtgttcttt 180
 gatatttcag tttgcatcag actntggcct ctctgattaa gtatttaaca atacaaagga 240
 aatgaattag tcaaagaaaa aaatggaaaa aggttactct tccaataaat ttcccttggt 300
 cacagggatt aaatatgaat actagaaaga cagaatgatt gtgcattttg aatccatgca 360
 aattgacatg tgggatgttg tgcaaaatgg acatcatatt 400

<210> 31497
 <211> 233
 <212> DNA
 <213> Glycine max

 <400> 31497

tacctttttac tgtagtgaag ctactaccc gccttagctg aataaccatg atatcaccat 60
 atacttacgg aacattgcc a ctgtcgaata gcgctggcaa taagagcgat gcggccatgc 120
 tttcgtagta ttactgatca catggctatg ctcatcatgt atgcagcgcc tgctacatct 180
 gaaatgatat ctatctgcc a catcgtgaa tttatcttac ttctttaatg tct 233

<210> 31498
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 31498
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 gtcaaggcct gagagaccat acaagtttcc taccaatttc taataatgtg ggccattaag 120
 tctatcatat gctgacaata cccgagaagc ccatgaatct cttcgggggc ggagtaggtg 180
 tctgccatcg ccttggcctt ggctaacaat cggggaagt cttgactccc gtcaagg 237

<210> 31499
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31499
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 gatgaactaa gggacgtaa tatggccacc gatgaagcct tggaatgaga aaccaagaag 120
 gcccgaagg aagaacacga ccaaaacaag ttttgagggg ctttataggg cagcaatagt 180
 gagctcaaac tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg 240
 acgagctaaa ggcttgctt angtcgaaaa gaaatttgtc ccaacagtta aggtgagaat 300
 gaagggaata tgtgggcat catcgatgag tgcaaagaga agctaaatct agcggcgact 360
 cacgagcaaa ggctagagga tgagtacgc aagatatcag cagaaaggga agcaaggga 420
 agggtaattg attcattgca ccaagaggca gcaatgagga tgga 464

<210> 31500
 <211> 269
 <212> DNA
 <213> Glycine max

agagcatagg cagaaaactc tgccaaaaca ccaaccaata gtcacagctt ttaccactca 120
aagacccag taacaattcc ttcgttccaa ttcgttaacc gttggatcga ctccaaaatt 180
ttactggaag tctatagtgt ataagcctgc attttgaccg ctgggatata ctagcaaaca 240
tccagaactc attctgcact aaactttcca cagccaacca cacacaagca tttttctgca 300
cttgtgcaaa attctgctgc acaatttcac agcaaaaact ctgcataagt gcagatttcg 360
aaaatcaccc ttcctctcat ccaatcttgc caaatcaaat ctacaagtcc cacatatgta 420
taaacatgtc taa 433

<210> 31506
<211> 363
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31506

tatatangta ctagcacgca gtatttcatt gacatataac acctttattg actatttgct 60
cccacttatc ttgcggtata cacaatcatc aactatattt gcctaaagat catatgaagt 120
aatgacatga tggaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180
ctaatttaga atgcaaacca tacactttga atgacctgat acaaagggtt agggttgcat 240
catataaatg ggttcttcaa tgtcacaact tataaatgcg agcttaacat ccatatgatg 300
tagctctaaa tcataatgag ctacgagtgc cattattgtt ctaaaagaat actttaaaga 360
tat 363

<210> 31507
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31507

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cttaccctct gaagcacaaa aagaagagaa tgaatatttc caatcaaacg ataaaggaga 120
aggaaaattt ccaatcaaag aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180
ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240

agaanattgc caatcaaaga atgggagaaa gaaaaaaaga gaacgataag attgacagag 300
 agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc tttggaccac 360
 acaatatctg aacaa 375

<210> 31508
 <211> 303
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31508

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 agattggatg aggggaagtg tggttttcga aatctgcatt ntgtgcagat ntttgctgtg 120
 aaattgtgca gcaggatttt gcacaagtgc agaaaaatac tangcatttg ctggttgtgg 180
 aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaatgta 240
 tgcttatgta ctagagactt ccagtagaaa tttggagtcg atccaacggc taacgaattg 300
 gaa 303

<210> 31509
 <211> 320
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31509

agcttgtatg attatggggg acccatcacc tgtggtacta tgtggcggtc gggcgatggg 60
 gcacaacaag ttttccacat ccacaaatca cgtataaacc caccatcccc tgttgccctc 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgttcctctc aacgccgggt 180
 ccccatcaat cctcccaagc ttccccaaca tccaggtaat tcaacatcca ctcatcacan 240
 actaacaac caagcaaac agagcanagg cagaaaactc tgcccaaac ccaaaccaaa 300
 atcacagctc tttctcactt 320

<210> 31510
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31510

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cagcggggttc aacacctgaa cactgtatatt gggaagaccc ataagaagga taaaagtcag 120
agttgcatat ggaagaagag gtccattttc tttgatcttc cgtactgggtg tgatcttgac 180
gttagacatt gtattgatgt tatgcatgtg gagaaaaatg tttgtgacag tgtgattggg 240
acgctcctta acattcaagg caagacgaag gatggcttan ataccgtca agatctagct 300
gatatgggta taagagcaca gttgtatcca aggtctgatg ggaagaaata ttacttgccc 360
ctagcctgcc atactntgtc caagaaggag aagataagtt nttgtcagtg tcttcgctcg 420

<210> 31511
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31511

agctttaga tttatcccaa ttccagggtc ctatgctgac ttgctcccat atctacttga 60
taattcaatg gtagccataa ccctagccaa ggttcatcaa cctccatttc tccgagaata 120
cgactcgaac gcaacgtgtg cttgtcacgg agaagccccg gggcgttcca ttgagcatgg 180
taaggctctg aagcgtaaag tgcaaggctt aattgatgca ggctggctga aatttgacga 240
gaattgcgtg taaatcctga cattgacaag agatgccaca catggggcaa ttntgaaagc 300
tgttgttagg tgtccctaata gactcatc 328

<210> 31512
<211> 179
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31512

atggaatgag cctacacact tatgcttgag tgaacaatg actgcgatga tngattgatg 60
atacttactt gatctctggc attcttacta gcttatttga tacgtgactc tgatgcggat 120
gctacaatcg ttgaaaatct gcatgcttgt ataaagcagt ggattgaagc agtccatga 179

tatcagcttc tctgagctta gtcttctttg tctctggaaa attaactggt tggtcatttg 180
cattccaaca attccttatg atataagcta agtcaatggc tggctcttagg ttttcatagg 240
aggtaagggc atcagatccc actcccctcg atctacanaa ggctgtgatt aaagctggga 300
agcctaatcg agaaaagtta gactgagcga tcatgggtcat ttgtctatac atcaaaccac 360
cgatgttcat gtccatcctt gtgaatatgc cat 393

<210> 31516
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31516

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tagctcatga gcacaaacat atagctgaag tcctatgaag gaacatagat ttgttcgcct 120
ggcagccatc taacatgccg agaatccacc ccagcattgt atgccaaaaa ttggttgtct 180
gcccttaggc caaacaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240
caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaaatact 300
cgacttggtta ggctaacatt gtcatggtga ggaaggctaa tggaaaatgg cacatgtgca 360
caaaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcatcg 420
acaagctagt ggacgatgcg 440

<210> 31517
<211> 397
<212> DNA
<213> Glycine max

<400> 31517

agtaacaata aacctgtcat ggcaattcca ttcaagacaa aagatgtcaa cgaggaaata 60
acctctaaag acattaagag cctaattggaa caggcaaatt ataccaacaa atacttacia 120
gcttttaggag aaaccataaa aactaaggta gttcctaaac aaaaatcaat tgaggaaact 180
tcgccaagaa tccccattga aaaaccttta ttcaaacctt tcaaagttag tgagaaggct 240
aaaagaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaac 300

catagtgaat tactaaacaa gattggtagt ttacttaaag tcattccaga tccccccaa 360
gcctcgaaa atacttccaa aatggtaaca agaagta 397

<210> 31518
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31518

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tttgatgtcg atcctgctaa aaatgctgcc agatgagact tttggttcaa aaacacagaa 120
gtctctggat cagctgcttt gaggacttct ggatgggatt ggaaccatag ttttacttgt 180
tctggatccg ctttggatga gtcaaattgt gtccaccatt ttacaaatgc gtgtctttgt 240
agtgatggat attggtttgt cttttcagtc ttgctgtaac gatattgcca tgagaatatc 300
catgacagtg caaagcttga aaagtattta agatctgctg gaattcgtga ttctgcgaa 360
ttgtattgtt tcttanattg ngaaaatcct tgttggaccg tttctgggaa tatctctggg 420
attggccana gaatcccacc attg 444

<210> 31519
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31519

agctttgatc caatacaaac gacaataact nttttctcgg atgtctgatt gattcccgtg 60
acatatcgag acgctngaaa ttgaaagctg aagctctgag ccaatacaaa cgaccataac 120
tttgactcgc gatgtctgat tgagtcctgt aacatatcga gacactcgaa attgaatgtt 180
gaagctgtga gccaatcaa acgataataa cttttttcac ggatgtctga ttgagtcctg 240
taacatatcg agacgtcaa aattgaatgt tgaacctctg agccaattca aacgacaata 300
actttttact ctgatgtctg aatgagtcct gtaacatatc gagacgctcg aaattgaatg 360
ttgaacctct gagccaatca aacgacaata actntttact cggatgtcat gattgatgtc 420
cgaacatatc 430

<210> 31520
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31520

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 aaagttattg tcgtttgaat atgctcagag gttcaacatt caatttcgag cgtcttgata 120
 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtttgaa atggctcaga 180
 gcttcaacaa tcaatttcga gcgtctggat atattacggg actcaatcag acatccgagt 240
 aaaaagttat tgtcgtttga attggctcag agattcaaca ttcaatttcg agcgtatcca 300
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgtttg aactagttca 360
 gagcttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 420
 gtaaaa 426

<210> 31521
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 31521

aggtgaaact tcctgctttt attggtgacc acagagtggg acctggagat atgtcgcggg 60
 ggtcaggaga ccttgggggac gtcaagtggg gtgctattgc ccaaaaccaa acttgaccaa 120
 tcccgaccca acccgggcat agtcgggtcag tgagaacatg tgacgtacc 169

<210> 31522
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31522

tatgcgccat atttcctacg aacgttcact tgcacaagac atcctataac taagaaaaat 60
 gcacccatat acaatcaagg tagcttcatt acctagatta tttacatgta cttccaaggt 120
 gtatttggtta tttacatcac acacngcctc ttggctaaat ttacatacat gcatacctca 180

agcatttcgg ggtaccaaaa attgcacatg cgctcatctt ggtattttcta atacctatac 240
atatacaaac ttcatgatga atcttgacta cctacgcaat aagggtgctac atttcatgcn 300
tctttttttt tttttttttt 320

<210> 31523
<211> 233
<212> DNA
<213> Glycine max

<400> 31523

agctttttat tcaataacga gcgtcgagat atatcacatg actcaatcct acatccgact 60
gaaatgctac atggcgatca aatttgcttg gctctccaac attatacttc gagcgtctcg 120
atatattact ggactatata atacatccga ctcaatagta gctgtcgatg acatagctta 180
gacattcaac atccatcttc tagtgactcg ttatattact gggctcagat aga 233

<210> 31524
<211> 389
<212> DNA
<213> Glycine max

<400> 31524

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atatctccca caaccccata cccacgaaaa tcaaaggaga aagaagccca cccaaacctg 120
aaatttcgaa gtcccactcg tagccacgca cttcacgact ccaaaaacgc tctcctttcg 180
cgatttgggg cataaatgat ggccagaggt tgaagctttg cttggagctt caatggagaa 240
tgagggagaa agaaacgcaa cgtgagggag atggagagag aatgcttctg caatctttct 300
gctgaatgaa cagagagaga gtcgcttttt ggttcttaaa cggttttctc ctcttttctt 360
attattttat tcaagctatg ccacatgtc 389

<210> 31525
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31525

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ttattaaacc ccttctcatg taggttttga ctctctttat ttgttattat attgttgatt 120
gatatgaaac atttattgat tttatcaatg attaactttg gtagaataat ttgttagaca 180
tctttgatga aatcctctct ctaccatatt ctttacattt agaaagttca agattgtatt 240
taagaaaatc gagctaaata ctactcaaat taatgatttg tcaagatgat tgttataaat 300
ctatcantaa ataacttaat agctgaaaat agctaggcac tggcaagatc tccgtgttct 360
tgtattacct ttattttgc 379

<210> 31526
<211> 399
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31526

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tatttcataa ttaaatccaa tggacatatt ctagagacaa ctttaacaat aaaacaagat 120
ttatttacac aatcactaca aaataaccat aaattggggg aactatacaa gttttggaaa 180
atgggtttcta tataaaagtt attcgtataa gacgactaac aaactcccc aaatttatag 240
ttttgcttgt cctccagcaa agaaagaaca gttcacttgt cctcaagtga caaactatag 300
tgatcacttc aaatggtggt tgcttcacaa ataaattcaa ccatatgaac tcgatatcat 360
ggactgcttc aatcaattga ttntcacaaa catgcagct 399

<210> 31527
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31527

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attttccacc atggagatgc agtgtaagac aaatgagaag aagtgaagg aggcgccatc 120
cactatggaa taagccatgg aagaaagagt ttcaccacca agatgagcct tggataagat 180
gcttgagat gatgcttcaa tggaggaaaa gatagatgga gagaaagaga gaggtgggga 240
gcacgaaatt gaacgaagaa aaaagggaga gaagtgaac tttgagttgt gtctcacaag 300

actctcattc atcaaagtta caacaagtgg tacacatgct tctatattata gactatgtag 360
cttccttgag aagcttcttt gagaaaactt ncttgagaag ct 402

<210> 31528
<211> 284
<212> DNA
<213> Glycine max

<400> 31528
agcatattga gacgcttgaa attgaaagct gaaactctga gacaccaoga cacaccatta 60
cttcttactc agatgtacga ttgagtaccg gaacatatct agacactoga aattgaatgg 120
tgaaactgtg aaccattca aacgataata actatatttca ccgatggctg attgaggacc 180
ggaacatatc gagacgctca aaaatgaatg gtgaacctct gagcacaatc agacgaccat 240
aactctttac tcggatgtct gattgagtcc cgtaacatat cgag 284

<210> 31529
<211> 222
<212> DNA
<213> Glycine max

<400> 31529
tagcttttga tatcattgac acagaattct tgggctttct tccaaaaaga acgacatgat 60
ttaaagtatc tcaggatctc caagatatcc ggctcaactg attgtcataa cacggcacac 120
aattgatagt caagcttctc ccattcaggt cttttatcat ctgagacaga attagatgat 180
atctccaacc agtcatggtg tocttgacca atgaaccaca ac 222

<210> 31530
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31530
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atatntgccca agtgtgtggt gaattattat tattaaccat tatattggta taaaattggt 120
tctactaana aatggtgaca attcttcatt ggaaacctta aatgcatata agatgagtat 180

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<400> 31535

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tgaatttact ttacgctggc gtgtggaagc actcactoct gtcataattct atgttgacat 120
accatttata atcttactct tattgaaaaa ttagtaccga cgattctatt gtcataactc 180
tgagccagcc t 191

<210> 31536

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31536

agcttcacaa tatgaanata gatcatttga tgaagccttc acattgcatt tcttcaacac 60
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catgtaggta catgggtcta tattgacttg agagttgaca cttgaaagtt ggtataatcc 180
atctctaaga ttccctttta gtagtgcctt cctgtcagt ttgtccttca catagcagta 240
gtttgcatca aattcaacaa gagcattatt gtctgcagtt aatttagata cactcaacaa 300
gttcttggtt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360
cgagcctgat gccaatatgc tcaatctttt accattgcc aactaacaag aattcttacc 420
attgctttca ctgagatctt ggagttctca ttntgatgag tcacatga 468

<210> 31537

<211> 404

<212> DNA

<213> Glycine max

<400> 31537

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcgggc gggcgatggt 60
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gctcacgtac tctcacgtag cccatatact cgtttctctc aacaccgggt 180
ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca cacagcacat 240
gctatcacia ccaagcaaaa cagagcatag gcagaaaact ctgccaaaac accaaccaat 300
aatcacagct tttcccactc aaagacccca gtaacaattc cttcgatcca attcgtaa 360

cgttggatcg actccaaaat ttactggaag tctctagtag ataa

404

<210> 31538
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31538

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 ctgtaagtat aaaatagaag tgtgtgtgct gctattttaag aaaaagacaa gctaagtgcg 120
 gaaaggcaag taatagagtt ggaataaaaa taaaaagggt gatctatgta tgaatgctct 180
 cttagaacct aagcttttgc atcctagaaa aaccatgaat tgattgcagc ccagcctcgt 240
 tacaagccta gtaaagtcct tcagattcaa tttgtgtgtt cttgactata tggcatgaga 300
 tgaattgcaa agattaagac ttgtgttagt tgttgattgt tgaataagcc taaacacttg 360
 tgtttgagtg aaacagtagc tgtgtgacct tggttaatga tccttccttg atatctnttg 420
 ctcttactag cttatttcag ttgtgttctt taataatcat gt 462

<210> 31539
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31539

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 attaattgaga gttctcctag ggtgatcagt ccacccatca gccatcatag tacatctagt 120
 ttccttccaa acttcttggt aaattttaac aagcttcctc cttcatcaa accatttata 180
 taacaaagga ccacaaattc tataaaaaaa aatggagat ttatacaccg gactcatgct 240
 actaataaca tcaatcatag gttgataata tgtcgagtta attgcattaa atggcactat 300
 agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 360
 caagacactc ttcaagct 378

<210> 31540
 <211> 445

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31540

ctataaatag ggggagaagt gaagtagaaa atggttcagc cccttaggca cttctctctc 60
tttcgaattt gcttaggaaa attgtttccg tgaagaaaat ccaagccgag gcgcttccgt 120
aacgtttccg tgagtgattt cgtgaagggt ttcgaccgtt cttcgacgtt cttcattcgt 180
tcttcacgtt tcttcagtct tcaacgggta agtacctcaa accaagcttt tcgattcatt 240
ctatgtaccc gtggtggtcc acattttggt tcatgtattt ttattctcgt ttcatttatt 300
ttttataccc ccttttgacg tgcttaagcc attntattta agtcatttct cgcttaacct 360
anaaataaaa taaatttcca ccgatcgttt gaattgtatt atccattaac tttggttgaa 420
atgaatntcg accgatcggg catgc 445

<210> 31541
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31541

gatgacntgg tcttcaccga cgaaaggatc aaagtgagtc tattaagagg caaatttgat 60
catcatactt tgataaatgc caaaaaaaaa ctagggcaaa tgaagagggt gagaatgagg 120
gacaagccca tgctgtgact gccattccta tacagctaag tttcccacca acccaacaat 180
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240
catccctaaa atcaaccaca aagcctacct actgcacttc caatgacaaa caccaccttt 300
agcgtaaacc ataacaccaa ccaagaaatg aattttgcag cgagaaagcc ttagaattca 360
ccccaattcc agtgtcctat gctgacttgc tcccatatct acttgataat tcaatggtag 420
ccataacccc aaccaaggtt catcaacctc catttctccg agaatac 467

<210> 31542
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31542

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 agcattatgt gaatgatttt gtggacattg tgcttgccat tcaggccaca gatntccaga 120
 atgatcaaac attctggaag aagtttgatc atggcaagat ctatcttcat attgtttcta 180
 cctatgtatg catattgatg atctcttagc ttattgttta tcaagtgtta gaaatatatt 240
 ctctcgact cattgtttta cactattctt tattagttac aattcggata gattctaata 300
 ctagttaagg gtgaggacca tcacatcata agtgggcaca cttatcttct 350

<210> 31543

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31543

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 caattatgct ttcagcacca attcaaatga tcttcctaga tgtactatct cataggataa 120
 accaaccaaa ttacaagagc ttcatatcca cactatgggt gccctgctgc caacattcgg 180
 agaagtaaaa tatgagatat acttgtcttt tggttatagt agattctcac taattggtat 240
 aatttgata gaattgtaat gattgatgca ctgttacaat gtttattctt atacattgggt 300
 agaatgttta ctttggaata tatntattgc gacaacatta ngtaataacc aaaataagtc 360
 tcattctttg gtaggattaa cttaatgatt ntacattctt gttcagagtct cgtattctga 420
 gttaaagtact gtcacatca 439

<210> 31544

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31544

agcttgggta cctccttctt cactacatca agaatcaccg ggttgagtct tctctgtggc 60
 tgtcttactg gtttaacccc atcctctaaa tttattcaat gcatacatgt ggatgggcta 120
 atacctggaa tgtccgccag ggtctagcct atagcctttt tatgcttctt gagaatagat 180

aacagtttct cctcttgctc atccgcaagg gaggcagata taattattgg aaaacttttg 240
ctatcatcca agtaagcata atttaaatnt gatggtagag gcttcaattc tgggtgtgggt 300
ggctggataa tggtagaaaag agatgggttc tcagcctgta ccttataaag aaagtcagag 360
gtatgtgtac ttntctganac anntggtagt ctatctaac 399

<210> 31545
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31545

tggctcaaaa tttcaaaaac tccatattgc atataacatt tagtgattat agcataaaga 60
caatgattgt gataaaaaga accataatga gttatatagg gtgtttactt ttataaccatt 120
aagctttgaa aggttccctt gcatcattat ggaggccaat aaaaaattaa ataaattatt 180
taaccttcca tgtgaagata tcaaaccctc aaactaatcc annatttctc tcatttttct 240
tttgtaaaat ttgacatang aagggaatgc caaaccaagt ccctaatttc ttcaattatg 300
ggaaaaaaga aagcatatct aggtggatag aacaaaanat caatgtatat gaatcaatta 360
atcacagaac aagaaataaa aataaaaaaa tatcanaaca aatat 405

<210> 31546
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31546

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agaaaaggag aaaatgacta tagaagaagg aggggtttccc ctattagaga tgttcaggct 120
ttgagtgtat tcaataaaga gctatgagtc tctactgcatt tttctccttt gcttcctatt 180
ccttttatag gccaaaaata tottaaaatt tatgcgacct cgcgttaagt gcacccttct 240
gagcttagta agtatgacgg tgtgatcatg cactgagcac gacagcgtct gggcttattg 300
agtatggcgg caatagctcg cttagcgcgg gattcgtgct aaacacgcct ttgggctcct 360
atcgggatct tntatgtaat a 381

<210> 31547
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31547

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 ttatggacag atatggaaga gtgtacaaac tcctagaatg tgtggagcat tctacagaat 120
 taatcttcac cttatgatac aagaaatctc caccatttat tggggagatg gagtagtata 180
 aataagggtta agaaccttca ttcctatcca tccctgataa gagtgaatcc acttcttata 240
 gtgagaaaaa gcctctctga gagagaagat atatagcttg ggaagtcttt attctcaagc 300
 ttgagtgagc caccgtagag tgagtccatc catgtagaga gcctctctga gagagaagat 360
 aaataacttg agatgtttct atcctcaagc ttgagtaagc ctctctgaga gagaagatat 420
 atagctcgag aagtctctat cctcaa 446

<210> 31548
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 31548

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 taatctggat tatgttatgt gaataccgag ttgtgaatta tgaataatcc ggtttttttt 120
 ttttaggaaa agaatttata atatgaattc tgtctgatat taattgtgat ataaatcatt 180
 aaatccctta taaccaaggt agccatacca tattaaggaa ttggcaaata accgagtgcc 240
 acaaataatt ctgattacat gtcaatttta tgtgatatca ttaatcatat t 291

<210> 31549
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 31549

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 agccttactc aagggtgaacc acgtaaatct gtttgtgtgt tctttctctc atctctttct 120

ctttcaatTT ttttacaaca tcgtgtgtgt gacataactt tcttctgcat ctgttggtgt 180
 tgttttttgcT tgttcttcat cacttccaca acaatctgga atcaagagct caatttgCGa 240
 tcaagggaat tcaagattct cgtctgaata taaagatcaa gctgtgggag tcttgtttct 300
 ggTtctttcg ctgcttcttt gtgatcaaga acattcaaga aatcatgtcc aacacaatca 360
 ggattgagaa attcaatgga aagaacagct tcaatctgtg gcgcatcaag atgcatgc 418

<210> 31550
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31550

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 ctttgccctt ccatgcagca acctggagca attgagcagc ctgaagctta tgctgcaaT 180
 atttacaata gacctcctca acctcagcag caaaatcaac cacagcagag caattatgac 240
 ctttccagca acagatacaa ccctggatgg aggaatcacc ctacctcag atggTccagc 300
 cctcaacaac aacaacagca gcctgctcct ttccttcana atgct 345

<210> 31551
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31551

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 tgaaatcttt atcttaatga acaacacctc gtgctcaaga gttcatcatt tccaagccaa 120
 atgcacattt atacttttaa atatagtctt tntattcctt aaccagtatc cttatgatca 180
 atgaggatga ggcaaacgag tgagggttga aagaaatcca tgcatgttat gccagctcct 240
 gttcctcatt ggatgctctc tgttccattt cgactgtcgg ctttgtcact agcaccgaat 300
 totatcattc tgtgtgactg acagatcttt tgttgtgtgt tggTctgatg gccacaatac 360
 aatacttcta ttaatcagca attgaaatat 390

<210> 31552
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31552

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 cataaaataa tatctagatg tgataaaatc tagatatgat aagataaaat ctagatgaaa 120
 tacaatttag ataagataag atttggtaga ataaaattgt ctgctctctt caagtccaag 180
 cccaattccg gattcaagcc caattactta caattctcct gacattaaat taaacacaca 240
 caattaatcc agtaggcca aatgataaaa ctacataatt aatttgacaa ttaatgctaa 300
 tcaataatta caatggtgac aaaaagggtt aagacatatg agaaaatgat gacacatcag 360
 tgaggcacat gaccatccag aatatgcaat ttcagc 396

<210> 31553
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31553

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 tctataacat taatntaaac ttactcaaac tgggttttacg gcgaaaactc caccgattca 180
 aaatttgacc ctcaacacc caatttacc tagaaatggc tcttgctttc acatttgtca 240
 ctcatnttc tcatttgctc tgcccaagct ntctacaag tcctaattga cattntanac 300
 taggatcaac tcactttaga ctccaattta cactaacccc aaatntagct tctctaaccc 360
 tcaaaatctc acactgttct acctacaaca ttgtcattct cacatntagc cctaaattaa 420
 ctgtcccat catctctacc 440

<210> 31554
 <211> 409
 <212> DNA
 <213> Glycine max

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<223>      unsure at all n locations
<400>      31554
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tcaaaacaag	agttcgtttt	ttacatgta	atagaattta	aatgaaaaaa	atgaaagcaa	120
ttacaaaaag	tagtaaagta	caacaaaagt	gaaatttctt	ctttaaaaaa	agaacctaaa	180
ttcatcgtgt	cacaactctt	aagttaaggt	gttaagaaat	aaatttgtcc	aatggcttta	240
aacttcttaa	atttcctctt	gaaagagtag	aaataaaatg	ttcaatcatt	ttaagttaaa	300
tcanatttaa	aacaatatta	catgaattca	aaatagtttg	accaaattga	ttaagctgaa	360
naaactgatt	acctttccca	aatanataac	aatggttatg	aaaatgata		409

<210>	31555
<211>	464
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31555
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ctt	caactgc	aata	acctat	ttg	ctcatga	ca	acaatcaa	ggt	gccaaat	gct	ccatgcc	180
tgt	tgccaa	tatt	tggtta	cac	ggtgtca	cat	gatatgt	tag	gaaaacc	act	catggct	240
aag	ttcaaga	cat	gattggc	ca	agcaatga	agt	cctttgc	cga	atgccaa	cgg	taagaga	300
atg	agcaatt	gtg	cctctct	ttg	caaaatg	cc	ataaacac	aatt	ctccaa	cct	tggtgtc	360
gt	acttgtac	aga	acatcca	ac	angctcaa	ata	acaatgc	ttg	gagttga	tgt	gcacct	420
g	ccctacac	ttg	caattgt	act	ttaacca	ct	cttcatac	ctac				464

<210>	31556
<211>	329
<212>	DNA
<213>	Glycine max

<400> 31556

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gaagagacgg ttcaccccat gatgcacttc tctctctatc caatgtgcta cggaccatta 120

tgtccatgag gaaactccaa gccgacgcmc ttacgcaacg ttgacgtgag taattacgtg 180
aagattctcg agcggttcttc aaagattgat cgctcgctct tcggttcaata cgatgggtcaa 240
ttcattatat gcatccgagg tgctccacat ggaggggcat gcatgatcat cctctttatc 300
agatactctt tataccctct attgacatg 329

<210> 31557
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31557

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agaggagat tgtaggtct aaatgggtcca cagaccactg gatgacccat tcccaccttg 180
gattttgatg attataaagg tataaattat tggtagacta atgatttatt gttaagtga 240
catgacctac tacataaatg agcacacttg gtattaaatt gtattctaca gctctagtga 300
gtatgcatcc aacgggctat taaagtacct gcatccactt attgtgaaac tagtggtcac 360
aactgagtt gtttttatc gtgttcattg gacttanatc acttatacac tctattttat 420
atctttataa gtgatgtcca atgaagtaca 450

<210> 31558
<211> 410
<212> DNA
<213> Glycine max
<400> 31558

agcttggtgt ttgaagtcta atccatcaca aaacacaaa tacacatgaa gaacaaatta 60
aatgcataca gtcatcaaat catagaaatc aattctaaga acataaaaaa tggctaaatt 120
accaaacaca aaccatcaat tcatgacaac aagaaaaagt attttaaggt aattacaact 180
cgtctaatac aattaaaaac aattataata aatcaaatg taaactacac aattaacttg 240
agatctaaga tcaaccctat tactcacaac caaacatcca ttataaatca ttatctaata 300
cctaacgtta ccaatataac caagatgggg aaaaggcgaa aataatcaat atcatatagt 360

aaaagagaat ggaaaggtag ggaacactca tctaacaaac acatagataa

410

<210> 31559

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31559

gtgtctntnt cctttattct tcatgtcatg attgaatgat tcattatgtc tttccttctc 60
ccttctttnt tgggtccataa caatgattat acaactcgtc attttctctc tatgctttga 120
ttgaatttca tacacaatta ttttattaat ccaaaccata taaattatta cgtgtgtgta 180
atataaaagc atatttagta aaaaatattg tttatatgag gataaaaataa taaatgttga 240
tatttaaatt acataagtac ataaagctaa tgaacacatg tcttttaaact ctaatgctag 300
atatacattg catgataatg ccatatatag tggttagtca tgtcttaact tatatatatg 360
gattggataa acagaataat tggatatgaa tacgaataag agcataagac gaggaggatg 420
aa 422

<210> 31560

<211> 436

<212> DNA

<213> Glycine max

<400> 31560

ggagttgggc cttaacgtgg tattgaaact tagcaatttg gtgggtggagc tgcattgtag 60
caacaaggat tagacttctg accacttggg gacaaaggct ctcaagccaa gttaagaacc 120
aactcttctt taaattcaag ctattaggtg tagttgaatg gttttatatt ttttaacaaaa 180
gttgtaacttt atttgcagtt gaatggcttc catgtaagct tgtacccttg aatattaaga 240
gagattatct aataggcatg attttttttaa tattattcag ttattcaata atgactgtaa 300
ttttcatatg cttgattctt ttcttaatta ttgtaattat ttatgtttta atattttctt 360
tagatgtcaa aggagttgtg acaactatat cttccattag agattccatt acagagtatt 420
tcagggtgga aaatca 436

<210> 31561

<211> 375

<212> DNA
<213> Glycine max

<400> 31561

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atacaacgta gtgactggga ataccctggc gacacccaac ttaatcgctt tgcattgacat 60
accactctcg caactggcga atagctaaga tgcccgcacc gatcgccctt acaaacagtt 120
gcgcagtcctg aatggcgaat ggcgctgat gccgtatttt ctccttacgc atctgtgcgg 180
tatttcacac cgcatatggg gcactctcaa gacaatctga tctgatgccg catatttaag 240
ccagccccga taccgcgcaa caccgcgtga cgcgaaacca ttgaagccgt attaaatata 300
aatcgacaat atgtatgtat taggatgttc tatcgataac cccgtatttc gtagccctgc 360
aatgatacta gagct 375
```

<210> 31562
<211> 325
<212> DNA
<213> Glycine max

<400> 31562

```
aagataggaa cgggtatgac cacacccgtc cgtgaagaat taatggccct gccaaaaaac 60
taccaagaca tctttgctt gtcataccaa gatatgcccg gtttgagttc tgacatcgta 120
caacacagat tacctctaaa tcccagtggt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cggtcttcac aataaataaa agagggttaag aaacaatttg acgctggctt 240
tctggctgtt gtcggtaact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tggaagga tgaatgtgcg tggat 325
```

<210> 31563
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31563

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nttgctcctt ttataaaaag agaagttctg aaactcatca cgttgtctaa aaaagccttg 60
aggtggatcc aagtgcctg atcattcatt agcatattca tgagttgccc caaccaaaaca 120
tagtccgcca cgtcccgtct ccatccgcac ccgttaagga actcgttccc ttacaaaag 180
```

acaagggaaa gattgatcta cttgaagaga ggctaagagc ggtagaaggc ctcggaact 240
 attcgttctt ggatttagcg gatctgtgtt tggtagctga catcatcatt ccccccaagt 300
 ttaaagtacc agaatttgat aaatataaag ggacgacgtg tccaataagt catcttcgga 360
 tgtactgccg aaggatgggg gcatattcta cggacgaata agctgtaatg cacttttttc 420
 aagacagctt agctggaaca gcagt 445

<210> 31564
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31564

ngagttgagg aagtgtagaa gggtttaact tcttgctntt attctttgac cacagagtgg 60
 tacctggaga tatgtcgcgg nggtgaggag accttgagga cgtcaggtgg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaaactt gattgatatg tgagatatgg 300
 tctctggtaa tcgactacca aggggtggga atcgattaca aggcttaaaa atgaagacag 360
 gacgctaaga tggctctctg taatcgatta ccaaggggtg taatcgatta ccangcttga 420
 aaacgaagtc aag 433

<210> 31565
 <211> 164
 <212> DNA
 <213> Glycine max

<400> 31565

ttttttatcc tcattggctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
 ctggactctc agccacttat gatagccgcc gatgatccca ttactgtttc cctaagctc 120
 tctgtccttt cttcatgccg catcccatgc cttgcgaact cctt 164

<210> 31566
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31566

tggtaatcaa ttaanacaaa gagttttatg tgctaaagaa gtttctaact ttagaaacaa 60
 tcttatttct tctacatgat gatgcatggt gtacatatga aaatatagag actaagattc 120
 aacaatcaat acaacaatca atacaaatgt cactcaaaga gttgggtcatg tgaaagacaa 180
 aacttcttca agcttcttca tgttgctcct cctatctctt acaccttatt cttctatctt 240
 atctttgaca cttctttttt gtacattata ataactgaaa gtccaatgac cttgattata 300
 tatacttttt ttaatgaaat agtgaaatac ggtgagacac tatcctttta tttctgaggt 360
 aacttctcta cact 374

<210> 31567
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31567

nggatattaa ttgtatgata tatactattg aacgctcgct acaacatata attctactct 60
 ttcagtgaat ggagcagcat tcaactaggc ttgtctgtta tccatttaca aactgtagtt 120
 agaacttaat tcataatgat aagggtgctac tngtctatat tgcaaaaacta atcttctgaa 180
 gcggtgttgg ttcattgcgt cgaatatga gaaataagac aggatggaaa gatcatcgat 240
 ctaggagctt tcttcatatt atgtgtccaa tggatgcata ctgaattgta ttagcctctt 300
 gaatgatgat atattgtcat ttactatacg cagtgcagat gtttctggag tttcaacaga 360
 atctatgcag ctctcatttg atgcccgatg gaatagtgtta cctacaatac t 411

<210> 31568
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 31568

acgagtgaca cgttgaaacg tgaacgttga aacggagcct aaaccactg tgacctggtg 60
 ccctctttta tggccccggt ttttgaaaac caaatcctct cacggatgac caacttaagc 120
 ctggacgagt ccttgtgatt tcatgtgtgt gcatgctctt tattgcttat gagaaggaaa 180

atacagttga attgggtgag gcatgactgt gacttgatct cacccatagc aattgggtggt 240
 ggagtgcacag acatgtccat gtgatacccc ctaccccttc attttactac tacggactaa 300
 agacattcat attcatcaaa gttcttttcaa ccaactcctcg caggataaag gctcacactt 360
 atttcttttac atactctact ctgccaatca atataatcat ttcaatcgac acggcgctag 420
 ctctaccat aacaagaacg atccacggc 449

<210> 31569
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 31569
 agcttttgtt tattgtgatg aggtacaagc cctaaaggca gagcttgaaa gagcccgagt 60
 agtcgaagag aagttcaagt ccatagccat caaagtgtga aaagagtatg atgaactaag 120
 ggacgtcaat atggccaccg gtgaagcctt ggaacgagaa accaagaagg cccgaaggaa 180
 gaacacgtgc aagcaaagtt ttgaggtgct ctataaggca gccatagtaa gctcaagctc 240
 cgaagaggtg aaaggaatca tcacgggtca aaggcatgat cttgaaggac gag 293

<210> 31570
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31570

taatctttta caaaggacca tgacttacgc ctaggaatct attttntggt tntgaatgta 60
 taaaggcttg aatattacga catgttttgag aggtttttga ttagaattta aattggctgc 120
 ctcatgatga ataccttgca cctaggtagc atggaaaata cctttcaatg gtatgtatat 180
 atgtgaatat atatagcatg gaaatgcctt gcagagtgtg taaatatatg gcataaatat 240
 accttgcaaa gtgtgaatat atagcaaata atgcatttca aaaatctata tatgtaaaaa 300
 atgcgtttca aaatatgtat gtttgtaagt aggtatgcat tatttccaac taatttctaa 360
 tgccatctac tatttgacgg ggttgcgccc acaagacacc tagtggaccc ggagaagtcc 420
 aacatggccc ttggtgtttc agctctagtt acgggcctct atc 463

<210> 31571
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31571

agcttatact cactgagctc ttgattgaca caagccttag ggtgatgcaa tcctactccc 60
 aaagggcatt ggatagaaga ctccaagaag attgagccag agatgcatga gaaggcccta 120
 gggttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gccacttat 180
 ctttgtatat attagattaa ggtttcatta tttttgggcc ttgtatttag ggctccatag 240
 tgtaaggagg gtaccctagt aatgtaggat ttttcagccc ttgtatttta gggtagatag 300
 actagttatt ggattagggg taattntgta atttctcatg cattaagtgc actatntgat 360
 gtgtgtgt 368

<210> 31572
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31572

tgataaagtc cttagtgatc tattntatgt ttgtgcaatt aaattgatta gatgatgcac 60
 aaatttgaga tttgtaattt caattagttt gaatgataga cacagcggaa acgcttgtgt 120
 gctgagtga acactagcct tgtgaggagt gaagcatggg taatcttctt gaatacttgt 180
 tgtcatacc taatttcgtc tggtagccat tatttgttgg tatgagacct tcgcttgacc 240
 atctcaaaat gtttatcacc catcgttgtg taatccataa agtctcgcaa cattccggaa 300
 gtcaaaacaa gcattgttgc gcaatccgta aagtttcgca acattccgga agtcaaagag 360
 agcattgttg cataatctgt aaagtccgga aacattcaag agggcaaaaa gagtatcatt 420
 gcgtaatctg tacagttacg tgatatttcg gaaagaaatc gatata 466

<210> 31573
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31573

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agcctttcat ttaagtattc taagataaat tagatataat acaaatttgg taacacacat   60
gaagttctgt gacacaaggg acagtggagg ataaaacggg gagcacgata aagtatagga  120
agagtatcac cttaaaactat ctatctctgg tgccatggct tcatcaagtg tctttgagga  180
atggcttggc atcccatatc cagcttggat atntcttaca tctggatggg taggaggagg  240
agtaaataatt ggagctgcat cttgggaacg cttacgaaaa actactccag atccgctgca  300
tttatataat ccaacacaag atattatgat acgatctcat ggtcattgaa tattaactca  360
ccatgtgaat atgggataca gatatcgatg caatcttcta tcctgt                    406

```

<210> 31574
<211> 427
<212> DNA
<213> Glycine max

```

<400> 31574
taatgaattt atacgataa taattcaata ttatatatag ttgcagctat tttagaagtt   60
taaataatat ataggagaat aatataaaag tttagtacac cgtattcaat cataaataat  120
tatttatgat aaatttatta atttctataa taattaactt aaaaattata ttaataataa  180
ttcttatatt gatgattatg taaacttttg cgcaaataat acatgtatat taaactcatt  240
ctgaaatctt aaggattaat taattgattc tagtaatact atcacactgc tgacaagttg  300
gagtaacaat ggtgaaattt caagacaaaa gtttgattaa ttaaaattaa agggagataa  360
tttacgcata gagacctatg cttaagaatt atgatcaata gtaattccta cattattcgt  420
attgaat                                         427

```

<210> 31575
<211> 232
<212> DNA
<213> Glycine max

```

<400> 31575
tgcatgaatc tctgaattat ggaatgaatg catgaattta aggatgatga atgccattgt   60
tgattataaa tagccactta gcccaaaatc taaccatgtg catgaatgat ttatcccttg  120
cactcagctt gagctgaatg aatgtttgat tgattgaacc ttgagcctgc ataagttatc  180

```

ttctgctacc ttgtcttaag ttgacgagag catgattcat agaaagattt gg 232

<210> 31576
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31576

tgtaatacat tgattgctct atatatctca tggctcttgg attctaagaa aaaccaaatt 60
cctttgaagt catgtcacaa tataagcctt gatcgagttc ttgtgattct catgtgtgtg 120
catgctcttt attgcttatg agaaggaaaa taaagttgaa ttgtgtgatg catgattgtg 180
agttgatatc acctaaagta attggtggtt gaggacaga catgtacaat gtgataccct 240
ctaccctca catatatact aataaggaat aaaaaaattt aaatattaat tacaagtatg 300
tttaagacaa gtctttcana gggaaanaag gtcacattc attntctttt acatcatatt 360
caaatntgtc caaataaata ataaagtatt ctgcaatcaa acaaggctgt ctaagcttca 420
tacaattaat atagaatctg gatcctaatt 449

<210> 31577
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31577

ttctttttct tctttctctg ntggtcatg ttcattcatga actttaagag atatgatcaa 60
acattngatt tttagattct aatgtatgat agataatctg ttagaaaaga aatatcactt 120
tcttacatag atcttactac ttcaagacat taatatctaa ttgttaactt tggattcatt 180
caaaaagata tacactatta caaaagttag atacattaac tgaaaaaaat tgtgtcagat 240
tatcccttta cataaaaaatt aaattgctaa tatagatatc gatacatctg gtaataatac 300
gagacattat act 313

<210> 31578
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31578

tacgatcatt ccaagtggat cctatataag attgaacaat atatttttaga naaattacgg 60
ataacaatct tcttttttgtt taattgaaga gaaattttaaa agagagaaat gatcaattga 120
ctnttagaaa taacaattta aaacattatg ttcttttcatt tttttttttca atttaaattt 180
cattctcaac aatgggtattc aataatttga aaccacgtga atcagttttac cctccaaaaa 240
gcacgtaaat catgtgtaca tactcataaa ttcatctctt caatgtgcga agattggaga 300
gaccattact ttcatcttga agtaattttg ttggacgagg acataactaac aaatagacgt 360
ggatcgtaaa attcacattc ggttgcgctt ccccaact 398

<210> 31579
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31579

agcttttgat atttataggc tttcttcttc aagtgtttgt tgtctctaaa tgaatagatt 60
tcttcacttg agttcacgta tgaagatatg gtcattggga cattaaatgc aagtcctttt 120
catgttgaaa aaccactctc tttagcttcc ttgaagaaca tttaaggaga acaccacttg 180
cttttcatca aagcaagtct atcatagcan gagaggctct tcgatattgc ttagaatttc 240
aaagtgttga atttcattta tgtttcttag gattaaaaan atcctaagggt aatgtcttat 300
aagatagttc ttggcaaatg aatctcaaac acataatatt aaatgaagtc taaatgattt 360
cttaaatgat gtatcagata ccataacata tat 393

<210> 31580
<211> 433
<212> DNA
<213> Glycine max

<400> 31580

tttactttga tctctttgtg cgtttgtgca catgtttctt tatcacccgt gtgagtgttt 60
gtgattcttt tcacacctta gggtccctctt gtatactgag gaatgctaac aacatattgt 120
tgtaatcact ctgtaatatt gacaaaaatt attaaaaatc acacaatctt gtgggtccta 180

tgtatttaat gagtttcaact cgtgattgtc tagtcatcag caaattctaa tcaatagtag 240
agagcgcac acagattgaa tggtagcat tctcttgggt ctattaacat aatgtcttga 300
tagattagga taacactgct tctgatctca ggtagaccta gagttgatgg tgatgaagaa 360
gaggatgata ctgatgattt agaaagtga tttgatactg cgagtgcgtt ctctgctatg 420
atattgccaa ata 433

<210> 31581
<211> 396
<212> DNA
<213> Glycine max

<400> 31581
atctatcgat tagactacat gaggcgcca cctcctgggt gtagccaaca tacgatcgtg 60
cgtatattct attgaggact atactctaac gatccgacta tgcttgacat tgctcgaggg 120
gtgatatgat actcatagac cactctgtgc taccatactc atcattgacg acctgtgctt 180
cggttactac aacattacgt gggaatagag aagcatcatg aggttaaggc tccaatagga 240
catagacgaa tctcattttg agctgaggca tcaaacccttg cactctatgg gaagataata 300
cattcatgat agcagatcta tgtcttttta cctcactcct atctatctgg caacgtgggt 360
gacatactca atgatgtcca taacgggacc aggcaa 396

<210> 31582
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31582

tatgcatgat aagaccccan agattgagaa gaggagagat ctttcattan tatggaaaag 60
catatctaca ttgtattgaa gactgaatga ataactctag gatagatgag gtgaacatgt 120
tcttgacact gtgtgattat gattttatct ataatgtaaa aggttgtaat gccttcatga 180
ttgcaattga actagcattg gttacattca tatgtaattt ctctcaatat caagggttgt 240
gaccaactg tgactacaat ataaagccct actataaagg attaccttaa atgatctatg 300
ctgcaatgat tcatg 315

<210> 31583
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31583

tagcttttat tttcaattta gagagtctcg atatgttacg agactcaatc ggacatctaa 60
 gtataaagtt attgtcgttt gaattctata tgagcttccg ttttcaattt ggagcgtctc 120
 gatataattac aggactcaat cgtacatcta agtataaagt tattgtcggt tgaattttct 180
 cagagcttct gttctcaatt tcgagcgtct ccatatatta cgggactcaa tcggacatcc 240
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300
 tcgatatatt acaggactca attagaca 328

<210> 31584
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31584

ntctagctnt tcattggtgt attttgatct ccttttggtta ctctataatg tgggaatgtg 60
 ctcaaataatg tggngcaatt ntggtttggt ttcttgcttg attgggttgg attggggggtt 120
 tgtatgggat ggccctatgc ctataattgc atttgaaaca atgggacatg ccacattgtc 180
 cccgttctct tgctattgat acctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
 aatggcatta gcgcgtgact nttgtaagga aacaacccat ggnngcatth ggtttgcaca 300
 tattntctat tttttgggac atgcattcat tcccgaagag gctagagtaa ttgccccaca 360
 tatatcctan gcctangaac cannagtntt atgcanaaga acacaagagg aagtgcattg 420
 tgggtaaagt tactc 435

<210> 31585
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31585

ttagcttatt ctgtaagtcc accaataaaa aaatgttttt attagtattt aaaaagtaaa 60
 aaatgcctca tatagacatt gataaaaaaa atcatatggt agaaaaaaa tccaacatat 120
 ttaaaattta aaaagtaaaa aaattctctt aaaattttct ttaaattctcg tttattattg 180
 ggtgatcgtg caactatctg attctaaaag ataaaaataat ttacatggtg atgacatacg 240
 ataaacttat caccattaga gactaattta catatataga tgtgaacttt ntaagaatta 300
 gatcaagttg tggcgaattc tatggtgaat cacccaaaca agtgttgtat aatgaaccac 360
 tattatttat catcagattg atctcaattt atcctctcat nctaca 406

<210> 31586
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 31586
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 ggtatctgag aatcacttaa aattactgag aaaaattggt tccatgatga taatccaagc 120
 cgaggctgct tcgttacgcg tccgaaacgt ttgctgggt gatcccgca ggatgtccca 180
 ccgatcttcg tcattcttcg ttogttcttc ggctttcttc ggtcttcaac cggcaagttc 240
 ccgaaatcga acttttcaat gcattctatg tacccttagt ggaccccaact tgtttggcgt 300
 gcttttatat atatttcatt tactttccgt acccgttttg acgtgcttta gtcatttatt 360
 taagtcattt tctcgcctaa tcagaaaata aaatatattt ccaactgatca tttgaattgt 420
 aacat 425

<210> 31587
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31587

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 ccttcgttac caagattatt tacatgtact tccaagggtg atttggtacc tacatcacat 120
 gcacttcctt ggctaaatnt acatacatgc atactcaaag catttggggg accaaatatt 180

gcacatgtgc acattccggt atttctaata tttagcgata taaaacttt gtgatgaatc 240
 ttggctatct acacaataag gtgatacatt tcatgcttta ttcaaagtgt ttgctacct 300
 aaagccgcat gcgaattcaa gtata 325

<210> 31588
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31588

gcttagcttc taaggaagtt ttctcaaaga agcttctcaa ggaatttttc tcaagagagc 60
 ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt tgtaactttg 120
 atgaatgaga gtcttgtgag acacaactca nagttcaact tctctccctc ttttattcct 180
 tcaatttcgt gctccccctc tctctctttc ttttctcca ttaaagcacc ctcttcaagc 240
 ttcttatcca aggcaattct tagtggtgaa gctccttctt cctcggttta ttccctagtg 300
 gatggtgcct cccctctcct cttctccttt tcttccggt gcactacat ggtgtaaaat 360
 caccattgaa ggacctcatt gaagctcaaa gatccagcct ctatagaagc tccacaagaa 420
 agcttccatc atttcggccc aactcttta aagatgctca ct 462

<210> 31589
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 31589

tcatcacct aaggccaagc tgcattggtg ttctgggcttt cgactacaac tgcttagaca 60
 taagggggga gatcgatctc ccaattcaaa ttggaccca catatgctaa attactttcc 120
 aagtgatgta cataaacctt acctatagat gcttactagg ccggccttgg attcatttag 180
 taggagtggc ccttcatgc tacaacaaac gctgaaattt gtggtggagg ggcaattaat 240
 tatagtcttg ggagaagagg acattcttct gagttttcct tcttctacat cttacaagga 300
 ggccgtggag gaatccttgg agatgttctt tcaagccttg gaggtggtaa gcattgctat 360
 gtggagtctc cccagtaga accaccctca tctagggctg cattaatggt agctcaggtg 420
 atgctagggc atcaataaag gctggaatg 449

<210> 31590
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31590

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 tctagagggtg gaggagactt cccactacc tggtattctg taatctttca ctttctcttc 120
 tctttgttgt aaaagaagtc tccctgctat ggagagctaa atcctcaatt ggttcttctt 180
 atggagtact tgatgtaaata acttttatat ctatctgatg atattttatg tgttctctat 240
 actatcaata cttcatgtta gtatgttttt gccttgatca cgtagatgca tgctgagtta 300
 gggtcactca acattgngaa atgggttgat ccttagaact tgataggacg gngttagttt 360
 atcgtattgt cacgagggat c 381

<210> 31591
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31591

gcgcgggtct gggagacaaa ggtcaagtgg tcgcgatatg cgaagatgat gttccgagta 60
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120
 aacgccccag catttacgca acgagcataa tgtaaactt tacggtttta aaagctctat 180
 agttgggcct aggctttaga gtttttcctt ttgttaaggc tttgtgtctt ttgttttttg 240
 aatttataat acaaggatct ttcttcatct gttcctacgt ctctacccat tctcattcat 300
 ttgcatgttt acttcttttt ctgaaacgac agatccgatg acgagtcccc cgaagggtact 360
 aatacctgng accgcctat cgacttcgag caagaaatga gtcanacgga agatgaagga 420
 aacaaggatg tgggaacttc ccagaaatta gaaagaatgg g 461

<210> 31592
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31592

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caaacattcc tttggcacga cctttgtttc tagcttcgga taccctgaga ctagggttag 120
gccctttgat ttgcactata tcagagggtga gtgagcctat tggaaattac ccctttgttc 180
ttagtcatta ttctttgtgt tgggtgtgat gaagctccat tgtttagct ttaggacttg 240
tacttgctat ttctttcatc cacagaagga gcattgtagg taaaaatttg cttttcttgt 300
ataacatttc actanacata tnggtgtatt gcattgggttt gttctatact tgggtgtgtgt 360
ataattgaat acaaattttg gatttgctaa tcccttaaaa aactgtggtt gtaatc 416

<210> 31593
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31593

gagatgagga agtgtagacg ggtgaaactt cctgctttta ttcgttgacc acagagtggg 60
acttgagat atgtcgcggg ggtcaggaga ccttggggac gtcaagtggg gtgctatttc 120
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aaacaggcga gtcctggga gtcaacagat aaaaggaaca aagaccacaa 240
aacaaggagg cttgtggtgg ctggctagct gtgaatcttg tgtgatatat gggttatggc 300
ctctggtaat cgattaccaa ggggtgggtaa tgcattacaa ggcttagaaa tgaagacagg 360
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac c 411

<210> 31594
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31594

tccttaccct cggaagcaaa aaagaagaga aggaaaattt ccaatccaag gaaaaaggag 60
aaagaaaatt tccaatcaaa gaggaagcca aaaaaaggag agaaggaaaa tttccaatca 120

<223> unsure at all n locations
 <400> 31597

tataagaaca aaattgcctt aatcatttac aaatatgcat gtgaattang acgcatcaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaanaacatg 300
 caaagtcgta cgtgcacaca taattgaccc ataatatata actgaatatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aatgaacaat accaacaaaa ctagcataac 420
 ctaagaacac ttcccc 437

<210> 31598
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 31598
 ttctttaaac tctgtacaac aatgaagctc tgataccact tgttaaaca gtggcctcag 60
 atatcttaag aaggggggggt tgaattaaga tattccaaac ttttctcta attaaaaatc 120
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaatt 180
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240
 gagaacatgc aaactcagtt ttatacttgt tcggccacac ccttgtgcct acgtacagtc 300
 cccaagcaac ccgcttgaga gttccactaa cttgtaaatt ccttttaca gttctaaaca 360
 ca 362

<210> 31599
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 31599
 agcctcagac aggtgcacga aagacttcgc agacgatgga acttagtccg ctccggagta 60
 tgacagtcac cgctttatga gcgctgtaca ccaacatcgc tatgaggcca tcaacggatg 120

atgacgggtca tgttctgccg ctcattccg

449

<210> 31602
<211> 324
<212> DNA
<213> Glycine max

<400> 31602

attatctttt agtaatcaat ctctaaattt taggatgaaa tgtatgaatg tggacatgat 60
gaacgccatg gttgtatata caaaccaatt gaccaaaaag cttaccttga attataattg 120
tattctttgc accctttgtg agccaaatta aagttgcaaa attgaaccct gaacttgaat 180
gactatcttc aaataccttg cttagattct acgatagcat atgggtcaag gcaatttacc 240
tcaacattgg gggagttaac ggggatgtaa agtggaatgt aaagctcatc aacacacaca 300
acacataagt tgtgttaaaa aaaa 324

<210> 31603
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31603

ntgagccaaa atcctgactc accatanacc ttgacctcag gtgataatgc caatccttac 60
cctcgggaagc aaaaaagaat agaggggaaa ttccaatca aagaaaaaga gaaggataat 120
ttccaatgaa agcaaaaaag aaatgaagga atattcccca atcaaagagt gggagatagc 180
aaaaaaagga aaagaaggaa aattcccca tcaaagagtg ggagatagca aaaagaaaag 240
atagataatt cccaaccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300
gtcaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360
acagaattgt cactaaatga acaaaaagaa ggataggaaa ccgtgacctt naatgggtctt 420
ctcccttta t 431

<210> 31604
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31604

ttcttcaagc tgcttaggtt gtcaccctat atatgtacac tgacatgctt ttctatggta 60
ccacaaacca actagacttg tcatctctca acatcacctt ttttttttct cttcagccaa 120
taagaatttc ccagtttgac cactcaattt ccagtaacag tcaactatga cttgattaat 180
gagaggtaat aaaagtaatt ttttttatag gggaaacaaa ggtacatttt cttgccaaag 240
tcaagaacta attcctttaa ggatttaacc tcttcaaaca aatatttatt catatacgtt 300
gggcagaaac agaaaatacc aaacaccata taccttgggc aatggacatg tcttanaatg 360
ctttcaangg acatgtagta atttaatctc ataacatgtc t 401

<210> 31605

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31605

ttatggagaa acagtacaca ttgatagtt nctggctctg gctntagcca cttgggtccca 60
attcttcagt tctccaagag acttggtcag ctccatccaa actntcatgt cacatgccta 120
attccacac tcgtgtctcc cccaagtgcc tcaatatcca tcttcaaac tcttccacca 180
aacatcaaca ctatttttct tcaaccggtg aaacctgagg acctaccaca aggggctacc 240
atagaaactc aaattcagct catagtggct ctctctatgc cctccataca tcaggccctg 300
aagaccttaa cttcaaggac tcgctntgtg gccttggtgg ctgattcttc tgcccttgac 360
gcattagatn ttgctaata gttcaacatg ttgtcctata tntacctccc catatcagc 419

<210> 31606

<211> 331

<212> DNA

<213> Glycine max

<400> 31606

tgtctagagg aaaagatcct catggcagat aacaacaaca gtcagttcat ttgtgaggga 60
gcatccctca cgaggtcacc aggettcaca agagaggact atccttattg gaaagacaaa 120
attgagatgt acatcaagtt caacccttac aaactctggc taatcatcac aaatggagat 180
ataccatttc ccagaccttg tcataatgga gctaaacaca aaagttcatt atactctaac 240

atgtagtcta tcaaggaatg agtacaacaa tatatgcaga attaagacaa ccaaagagat 300
 ttggaactca ctgggcatca actatgaatg a 331

<210> 31607
 <211> 468
 <212> DNA
 <213> Glycine max
 <400> 31607

actcagcttg tcaaaaggga agcaagttaa gaaatccttt caaagcaaaa acgttgtttc 60
 tacttcaaaa ccccttgaac tacttcacat tgatttatctt ggtccctcaa gaactatgcg 120
 tttaggtgga aattactatg gcttagtaat agtagatgat tactcaaatt tcttggaactt 180
 tgtttttgaa aacaaaaaat gaagcttttg atgattttca caaacttgcc aaggtgatcc 240
 aaaatgaaaa aggtctcaac attgtttcaa ttagaagtga tcatggaggt gaatttcaaa 300
 atgactttta tgaaaaaat gaaattcacc ataatttttc tgccccaaga acatctcagg 360
 agactggtgt tgtggagagg aaaaatagat ccattgaata aggtgcaaga aaccttctaa 420
 atgaaacaag gttacctaat tacttttggg aagatgtata catactat 468

<210> 31608
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31608

agtggcattt caaatgcaaa gaatggatgt aattgaaaaa ctaatgctgg gtatggagct 60
 acagttggat tgcttcactt tcatttgaaa gtttcattgt aaggcattcg ctctccacaa 120
 catcataaca gaataaaaat agaaataaga acgagttata aaaaaaacta gcttgcaatt 180
 gaaacttttt tcttgtgatt ttcattgtaa gaaagaaaga tgaaccactt angaagcaaa 240
 agatcaaggc attatcttta ttgaagatac catgaatatt cttgactaaa tataaaacca 300
 ccataaacat tntccagcaa aaatatctca tattatcata taccacaaaa nataaataaa 360
 taaataaaaag aaaaatcaca gcaacaacaa ttc 393

<210> 31609

<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31609

tatcctgaca ttgtttcaaa gcctccaaca gtccaacttg ctcaactcac tcaaattact 60
agacaattta aaataaatac agtgactata tgcattgttta atattaaagt atattttctt 120
tatattatta gtttacatgt agataagatt taataaatag tcattaataa tcacaatctt 180
caaatacagga ttaccactaa actaattaat tgttacaaat caaatcagga tcattaattt 240
tcgtgacctt gtttgaacct attgtaacag agaatggcaa gtatatgagt tgtctcattc 300
ctttcacgcg ttttgttttt gtcttgacct ggcatntctt cgggctgttc agtgaccacc 360
atcacttgga tgtctgttta ttcgtttggc actgcgctnn tgggttagtt agccacactt 420
ctagttgtgg cctgcactgg aagatacann atagtagaca agttaaag 468

<210> 31610
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31610

agcttgtatg tgatcaagtt taacttacca acaataacaa tttcctccct ttgttatatt 60
ctctcaccta gcttcagcaa ttcagctttt cctgtggctc ttccctccct ttttcatatc 120
tttttctctg tctaaggaag tgtgcagcaa aaaaaagaaa actttgttac tcagtatgtt 180
aatatgacga cgaanatgga gaactgtcca ccttaccgca ctcccatcct tttctttntg 240
tattggttct ggtaaacgtc aagtgagaag cccactaaa catatactat atattaatta 300
actatatat 309

<210> 31611
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31611

gaatgctttc tgtcttgtgc caatggaata aattgacttg tcgccaagtt ttggactggt 60

tcttgaacca taatgatact ggtcaatctt tagttcaaata ggacaagcta aatgtgaaat 120
ctaattgtca cctatacagg aatttggagg gaagagtggga aaggcggcag aaaacagaac 180
tcatacctgt agtgtcaagc acagaagaat gacttttctt taaattcccc agactttctt 240
cttcaaaacg ttcacgaccc tcagagagta tgccaagata agcatacaca ttgggtctgaa 300
tgggtcaactn tatattntca cgttcatctt ctgannaggg ggtgcttttg taaagaatct 360
tggcctgaca taagcattta caattctata aatacattga tttcttggct ttcttcaaca 420
acaacatgca tg 432

<210> 31612
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31612

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agtacgacag tcaccgcttt aggagcggtg tacatcagca gcgcttcgaa gccatcaagg 120
gatggtcggt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc 180
aggaggaaat agggcgccgg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240
cagaaatagt ccttgagttt tacgccaatg cttggccaac agaggaaggc gtgcgtgaca 300
tgaggtcctg ngttangggg cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
tgggatatcc gat 373

<210> 31613
<211> 401
<212> DNA
<213> Glycine max

<400> 31613

tgaatcggac atccgtgtga gaagttatga ccatttgaat ttctcaagag cttccgctgt 60
tcatttttga tcctctcgac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120
gatcatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180
accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240

ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgaccat ttgaatatct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
 gatttgccctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 31614
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 31614

tgaacacagat atcaatatca tcgctaatat cctccagaag tgatattggt agattcacct 60
 acattgtatt catgaatgaa taaaaatagc ctatcaagaa attaattgaa tcaataatgc 120
 tagagatcct ttgttaagac attctactta attatctttc tcaaaagaac ctcaattgcg 180
 atatatcctt aattcctcac catcatagcc atggaccctt ctgggtttata acggcacata 240
 atgtatggaa tatccttcaa ctctgtacaa catatatctg ccacatgcct cacattatca 300
 atgggtctct tgatgacaac ctcttcagca tgctcaatga tctgaggtag agctggctgc 360
 caatgccaat cgagataagc catca 385

<210> 31615
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 31615

aattattgta taaatcttta atcttacaaa ttctttgttt tgtatttggc tactccacat 60
 gaactaatgg tttgcttatt aaaacacatt aacaccacat taatgatctg aggctcgaga 120
 catggatatg atgaaaatct aatcgcaacc aataatagat acttttttta agaaaaaat 180
 atggtgcaaa agctcttaag aagattccta tattattatt gcttataata aatcctatca 240
 tccattaaca gctattaact tttttgataa atcatatgcg cacatttgaa attttaatta 300
 atgtataaga atatctt 317

<210> 31616
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31616

tagcataact aattccctga atgacaaaag tcaatagttg aatatgataa ccaagttaat 60
 actgtgggtg aacatttggt atgcgagaac aagttcgagc agattgtctc caatgaagaa 120
 tgtaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttgacaaaac 180
 ctgcgggatg gccaaagctag caatagtgat gccggacaca aggtcagatt tgaagagttt 240
 gagattatac ttangacccc attggagaat aggggaacaca tattgagctc caaggatcag 300
 ttntctctta agaggttgtc ccttgaattg gcgcagagga tcatcangga agaaagtttc 360
 cttgagccta cccttgagtt tctg 384

<210> 31617
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31617

tattttttgga gtgattaaag aactctatcc cttatatata aacacaaaca gctcgcgtta 60
 ttcaactagc accatcacca ccttatccga caacaaggca ttcaacacca atattttaatc 120
 atcacaatac tacccttacc atangcactg gataagatta agataccaaa gcaagaatga 180
 tgcatacat cccttggtt ngctttataa ccaagaccaa cctgtggcac atgtattgat 240
 gttacagcat ttcacaatca aaagttttac cctcanagac acacatatat tttat 295

<210> 31618
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31618

taatacatga ccgggtcact ctctattttag acggctgaag aatttattac aaatttctca 60
 cacagagatt acgcttttagt ttctctcact agaatccttc aacttgatt caagatgctc 120
 ttcaaacatg tcttacagct ctatggaaga ccattgaaat gggctctacc caactgaaaa 180
 acttctggaa caagtagaca aacatgacaa ctatcatgaa atgactgctc gcataacatt 240
 ctaagacaga cattctgagg aacatnttgt ataatatct tgaagcatct gtacaatagt 300

cattctgatg tttgctgaga aagaatttat acttgtagta gattcttttg atgaatttca 360
actaatatgc ctttctaaag taatgcagct tcatcaatca taacacatcg tcacagcac 419

<210> 31619
<211> 212
<212> DNA
<213> Glycine max

<400> 31619

gtcgctgct gcatgcattc tttaaattga atatgcaacg ctccgcataa tttcgaactg 60
ctgtcatcca ttacaatgat ttggtaatct attaccactg cttttgaatg ctgaaatttg 120
aattcaaagg tgaatagtca caacctttca cataacagct ttgtgtaatc gattacactt 180
atttgtgaat ccattaccaa tgattgcttc tg 212

<210> 31620
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31620

tgtagatgct tcgaggctct ccaatgtcaa accttgnngtt tgatgagcct ttggagaagc 60
aagactcact aagggtggat cttgggtttg acgagcctct ggagaagtga gactcaacta 120
ggacagacct tgggtttgac gagccttttg agaagtgaga ttcaccaagg atagactttg 180
ggtttcaaaa acctataagt ctaccaagg acaaaccttg tgtttgatga gcctttggaa 240
acacaagact caccaaggac ggaccttggt tttgatgagc ctttggagaa gcgagactca 300
ccaagggcaa accttgtgtt taacgagcct ttggagaggc aagactcact aagagcaggc 360
attgnngtgat gagtcttaga ctanggaatg ctcgac 396

<210> 31621
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31621

tttatctttt atgtgaaagg atgtgactct tcacatttga atttgaattt caacgttcaa 60

aagcactggg aatcaattac caaaacattg gaatcgatta cagctttttg aaattaattg 120
gaacattggg aattcaattt gaaaagtgga gccttagatt acaattgtgt gaaattatgt 180
atctaaactt ttatttcttt ntattntttg aggtcaacaa aagtggagct cttgctccta 240
cgtacccttc atcgaagagg aaatcagacc tacgtaattc tt 282

<210> 31622
<211> 435
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31622

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agctgcagca ccagctccgc ttccctaact gtactggagg cggttgtggg ggctttatcc 120
tctatggttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180
gccgatagat cggccttcat ctattcctac acgccctctt cattatccat ttttctggat 240
cgagtgttat aggggtgcct tgggtgttttc ttagttatga tcaaattcct aaagaaataa 300
acaatggtga gtatgccacc aaaacatgag tatgcaaatg gatgatcgga gcgcttgat 360
ccacccaag gttttttaga taacatgggtg agtccataac ttctcattnt atataaagaa 420
canagctttc atcta 435

<210> 31623
<211> 354
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31623

tccttgagaa gctagagctt agctacacac acccatctaa gaactaagct cacctccttg 60
acaaaataca tganaataca aaaaanaaaa agtccttaca acaaagacaa ccanaatgc 120
cctcaaatac aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag 180
aaggaaaaac ctattcta atttacaaag ataagcgggc tcatacttag cccatgggct 240
cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300
caacttgag ttttctaccc aatgcccttg cgggtganga ttgcatcaat atgt 354

<210> 31624
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 31624

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 aatttgatca tctgtctctg atgaatgcga aaaatgggga aaatgaagag gatgagaata 120
 agggagaaac ccttgctatg actgccattc ctacacgggc aaatttccca tcagcctaac 180
 aatgtcatta ctacgccaat aacagtcctt ctcacccaat catccacaaa agtcatcccc 240
 aaatcagcca caaggcctgc ctgcttaccg cagcccaat gcccaaacac cacctttagc 300
 gc 302

<210> 31625
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31625

ntctcatgag ctcccttgag tgctccttga ggaatacana aatggaagca catgggaaga 60
 aaaaagggtta ttaccacact aagacataac ccaagaataa caagaggaga atgagcttt 120
 cttttgcaca aagaggacca aaactccaac tcttaagata agggttctct tggagaagga 180
 gaatagagta gagaatgata ttgtgatgtg agttgtagat taataaaggt tttatgagga 240
 gtttatgatt atctcattc tttctgtatg cactctacac ttcattaaac ttaatcacca 300
 tttttgtgac ccaagatcca tccacttatg tcgcaacact ctataactca tcaaaacaca 360
 catataacat gacatatata taaacataac agatcattat ctcataatta attaagtaat 420
 aattatcgac ac 432

<210> 31626
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31626

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aaccgcaacc agaagatgga gtgtctagag aaaatgcttc tgaggtgagt atcttttatg 120
tttttggttag ttgatttgac ttgtttgttt aaggaaatag gtgatgcttg gataaggggt 180
atgtggacta naaattccaa atggaagtgg ttgtatagag aaatcacgtt gtttatggaa 240
ttgtgtanca tcaatgtgaa ggctaaatca ctgaatgggg agtgaactgg cttcacgact 300
gctactgctg tcttagacag gcttcttana ttcttgctta taaggtaatg gcttgggtata 360
atcagtcctt tgtatctacc cattatccaa gtactccctt gttattggt 409

<210> 31627
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31627

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gattnttttt ttaaaaaaaaa aattgtaatt ttgatctctt attctaaaat aaagacattt 120
agtccccata tttcttaaaa tccataattt taatccccta ttttaaaatg tagacattta 180
gtctcttgct tttaaaatct ataatttttg tcattctctc aaacttaaag caatgatggt 240
aagaaattaa taatgaatat gacataaatt aaacaaatta tcttttgtca ctaaatttgg 300
accacatcaa attaatttct taccatcaat gtnnttttaa attgatgaaa gaatcataat 360
tgtgacattt acaaagctaa aggactaaat gtctntattn tataatanaa gaactaanat 420
tatgagattt aaaaaataac aaactaaaat 450

<210> 31628
<211> 430
<212> DNA
<213> Glycine max
<400> 31628

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gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
ctccaactga gctcacatac tcccacgtag cccatatcct cgtttctctc aacaccgggt 180

ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacagcacaa 240
 gctatcacag ccaagcaaaa caggggcaaag gcagaaaact ctgctcaaac accaaccaaa 300
 atcacagctt ttctcactta aagaccccaa taacaattcc ttcgatctaa ttcgttaacc 360
 gttggatcga ctccaaaaat gtactggaag tctatagtgc ataagcctac attttgaccg 420
 ctgggatctg 430

<210> 31629
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31629

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 tcgagtgaca cctgtgtggg gagcaactca acccttgtgc ggtcggttga gaagttagaa 120
 gaggtgtaga atgcaatctg gctcgatcag gggatcatgg aggtagaaat tgtggcggac 180
 gtgtgggact ttgacattgt gaagcacacg atgcacgatg tgggccccat agacgtcctg 240
 cttttgaatt acaacatggt catgttgctt cttcctaaca taaatctaata ggcaacattg 300
 aatctcctca agttcgcgtg aggttattag attatgggtt gngattctta gtttttgtga 360
 gtaatggctt acagaacgtg aaagaatgga ttggagattt ggtcttttgg tttataat 418

<210> 31630
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31630

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 ttcttacgac ttgatattt ctactttnta tttttaatct tatattattt catataaata 120
 ttttgtagtc ctctgatcta aagaatattc aagaaaggag ttcgaaaaga aaaagtgatt 180
 ttgatgatga agttcctttc agttcttctc tcanatcaac ccataattg aaaccaaaaga 240
 aaaaaaagta agtttctctt anagtttctt ttntatttaa ttagaaatta cttcgactaa 300
 atttctacgc atatagtagt taaatcaaat attcattttc caaaaatgta aacatactat 360

tttcaggaaa ctntaagaaa gatntattct acacattcta agtctaaaga catgatcgag 420
acacaccttt 430

<210> 31631
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31631

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actcaatttt gattcatgaa tgactcttgg tagttcatgg aaactgtgta aatcaagccc 120
acaattagta tggattcctt ttgaattttc tactaaaaat ggttaaagta gagttttgtc 180
aaaaatggat attcttgctt ttactaaaa ctagtaaatt ctatcctaaa caccttgatt 240
attgtgctaa tctccctagg attacttgta actagagtga aactcacata aagattactc 300
ttacatagag ctaaattaca ttgtcactca ngatacaaca caattttgnt acataaagaa 360
tcttcgttca gatagtttcc atatctctgt caagttagac taaacaaatt atttacac 418

<210> 31632
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31632

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gtgtaatagt gattcaagaa tcagggttcaa agatcatgaa ttgaataata agaaagggtc 120
ctgggtagta ataataagga gtgatgttaa aaatccatct atggagaaaa atagaaccaa 180
aagtattaaa gaagaataaa gagttcaatg gaatttttct tggtgaaaaa acaaaatgga 240
aaaaaaatga agtaaaaaaa gaaaaaaa agttgaaaca atgacaaaaa tattcctaag 300
atgattatta tatttgtgat ctcatgctat gaatcatggt tgggcaaaag aaataattgg 360
agaaaaaat taanaaatag aagtgtattg aaatgagaat gattgattac atcaacaaa 419

<210> 31633
<211> 408
<212> DNA

<213> Glycine max

<400> 31633

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ctcaaacagt gcagatgact gacaaataat gaaatcatga attatgtaca aaggatacaa 120
aacaagatga gataaatatc ttaacgatcg aaaaaaatat tcacaagtta gaaatcaaaa 180
gctagaattt caaaaaacat gttaaaagtt acttaaaaaa cctacttaaa aaactttatt 240
atcggatact caaatgacat tcttaactat taaaaaacta aacactaact acaatatctt 300
accaaaaata atcttagtat ttttaatctt gatcatccat gtgtataatc ataagaacta 360
tattcctctc gcttctttgt tttaatcaac cgtgaatctg acttatat 408

<210> 31634

<211> 419

<212> DNA

<213> Glycine max

<400> 31634

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ccaacatctg ccaactgatct gccattcggg gtttgcaact taaatcgctc tgccttgtat 120
gcagaaagga tattatcttc atcgggtagg tgattgctaa ctttcatgag tgagccaaga 180
gaattcatct gaaaggttta agatacaatc agatgacagc ttccaagaat aaaattgaaa 240
actagtttta ctccagataa aaacaatatg gcagtcacta ttgaccacc tagctgagaa 300
aaatgataga actacagtct tttatgtact taatgacctt ccaattataa ttattaatcc 360
aactacaatt caagatctta agttgattat aaactgagcg aaccatatcc aaaccaaatt 419

<210> 31635

<211> 416

<212> DNA

<213> Glycine max

<400> 31635

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cagaaagata attttatgta tatattttttt aaaattttta atatatttat tactttacta 120
ccagtatttt tataataaag atgtattctt ttttaattga caaattattt agtttattaa 180

ttttatttat tcaaattaat ttattcaata ttattgaatt ccagtcaatt acttgctaaa 240
 actgaagtct gaagggttac aaattacaaa atgcatttta aagagaaaaa taaaagcata 300
 aaatagatat atgaagtaga aaaatcaa ataatcatggt tacagagagt tccaatttaa 360
 tacaacgggc tactcaatat gtcttcctct ttggtactct tagtcttcga gacaat 416

<210> 31636
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31636

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 gatgattata ttactatct cttgggtgtt tatgggtatg aattttaaac ttagttattt 180
 tgataatata tgatcagtgg tatgtacttt tatttggtta ttatgagtga cttttctgga 240
 ttatatgaca ttctatgaag tatatcttct taagattgat gaatgggtta gttatcttgt 300
 ttgattgttt tctattctct tgtatgatta gtaatttatg tatgttttat atttgttatg 360
 cattttggct ttntgttgat gccaaagggg gagagaaata nggattaaat caagaactcg 420

<210> 31637
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31637

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 tatatcgaga cgctcgaaat tgaatgttga atctcttaac caatccaaac gacaataact 120
 ttttactcgg atgtctgatt ggtcccgta atataacgag acgctcaaaa ttgaatgttg 180
 aagcttagag ccaattcaaa cgacaataac ttattactcg gatgtctgat tgagtcccg 240
 catatatcga gacgctcga attgaatgtt gaagctctta gccattcaa acgacaataa 300
 ctttatactc gaatgtctga ttgagtcctg taatataacg agacgctcga aattgaatgt 360
 tgaagctctg agccaattca aacgacaata actttntact cggtatgtctg attgagtccc 420

gtcatat

427

<210> 31638
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31638

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ataggttgga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120
ctccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaadc 180
ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaatc actagaacca 240
tgagcaagag gctccaagaa gattgngcta gagctgctga agaaggccct anggttctca 300
tgaaccttan ggtagatttc tgagcccatg ggccaagggtt ggggtccaatt atctttgtac 360
atattagact angatgtcat tataatntggt ccttgatat anggtccat att 413

<210> 31639
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31639

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tctccttggt attatgtact tggtcatctt ctacacttgt accaactacta acattgtaac 120
cggtatactt tttttttggg catttctaca tgtgactaaa tggctgccta cattgaaacc 180
atgtcccttc ttctgtctt ttgttatact attgataagg aagcttttgt gctcccctgt 240
tactcttggg aatgtggtag tggtggaactt ttttcttgac tgatctcatg ctgatgtcg 300
ttccacaccc ctgtctgaat tggagacttt tagaattcta agagttcttt actcccaaat 360
aattgtcaag atcttaagtt cattggatac caatttctac acttaactgg ttcctttga 419

<210> 31640
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 31640

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 gaccttggtt cctctcatga cagcttggtg accctagagg ggagtcgaag agtgaaaatg 120
 cagagcgcaa gagagtacag agagctagac atcaaattt aaaaaaaaaag cataaaacct 180
 tctaagacga tttttttaca aaaccgtctt aaaatgacag tcttttaaga tggttttcgt 240
 aaaatcgtct tcgttgaaaa ctttcgtatt tataaaattg tctactgcta tatacgggaa 300
 ccgtcttaat ttcggtgttg tagaaaaat ttttttctag tagtgactnt ctctcttaat 360
 aaatttaaaa attagaaaat gttctagaat tgaagtgtaa ctctt 405

<210> 31641
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31641

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 aaacaaacaa atcaaacgta acaagacaat tatagttgct gtttgaatac ctcacccact 120
 caagtgtatc acacaattat ggctttttctc taatgaaaca ctcttgctt ttaccactct 180
 aattccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
 caatatgtgt aaggtaaggc tagacaagga aaaggttaac caagaaaaag gctaacaatg 300
 tttttaggca caaatgaagg anataaaatt cagaatttag gaattcaagt aacaatcctt 360
 catgcaacca atatattacc ttanagaggt ttttttttaa gttcttcaag catgaaccat 420
 tc 422

<210> 31642
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31642

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 gatgtccgat tctggcaaat cacatatcag gacactcgaa attgaacaat ggaagctctt 120

gagaatttca aatggtcata acttttcaca cggatgtagg attaaggcgc atcacatata 180
gagacgctcg aaaatgaaca acggaagctc tggggaacat aagatgggtca taactttctca 240
cactgaggtc ctattctggc ttataatata ttgatatgct cgagattaaa catctgaagc 300
tctcgagaaa ttcanatggc cataactatt cacacggatg tccgattcgg gcgcataata 360
tg 362

<210> 31643
<211> 261
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31643

cacacacccc tctcataact aagctcacct ccttgagaag cttccttaag aagattccta 60
acgaagctag agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg 120
agaagctaga gcttagctac acaccncta taatagctaa gcttaccccc atgacaaana 180
acatgagaat acaaaanana gtccttacta ganagactac tcanaatacc ccgaaataca 240
aggctaanaac cctatactac t 261

<210> 31644
<211> 311
<212> DNA
<213> Glycine max
<400> 31644

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cagaggcttt gtcaagggaag agagtgaag gatcgccgtt gttgagtatc ttggcacgac 120
catctcccca agttacgtca aaatcctggt agaagttgcc agcagaggct gcgatggaag 180
aggccaatac aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240
ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300
agtaatgaaa t 311

<210> 31645
<211> 419
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31645

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 taaaaggaaa ggattggtac aaaggggggt gctctaata ga attgctatatt tcaagaggaa 120
 gttaagcaga taatgctaata attagcatgg cagatttaca agtaattgga gaggttgggt 180
 tggagatata gctttactac agtaaataga ctttttccat ctaatgaagt tgaaattttt 240
 gacaggttgg gttggagata tagatttaca agtaattgga gaggttgggt tggagatata 300
 gatttacaag tggatctggt tactagacgc agataaatgc tttnggggtg ctgcaacata 360
 tatccatttc atatgccttt ctacacaact gcaagaatat ggtctatcag tcaactgaat 419

<210> 31646

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31646

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 caccatacgt atttcagtaa ctagctatta tatagtctct tactctcatt acttgataat 120
 tatatataga tccttataag tacttgtaaa tgaagaaaat cacaaggata aatgaaataa 180
 acttctcccg tacgtaatag cttatggggg aaacttaatt tcatttttcc ttattttctt 240
 cttttataag tgcttatgga aaactttatc ctaacagAAC cttattctct gtcttgca 300
 gatcntattg caattccaga gtactaatag ggactaggta gagtaatctt ttaacgaaat 360
 tccatctatg cagggttcgt acaggaggga atat 394

<210> 31647

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31647

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 tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120

accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240
gaactaagac aagagtttcc ttgtagtggt tataactgaa gtcagagcca tatgaataac 300
ttanagggtt ggcaaagaag tcattctcac cagccattgt cttcatgtca tccaaacaat 360
ntggaatgga tcctgacagg ctgttattgc caagatccag cactat 406

<210> 31648
<211> 409
<212> DNA
<213> Glycine max

<400> 31648
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aatcatcat tgaaggacct cattgaagct caaagattca gcctccatag aagcttctca 180
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ccaagcatca aattacatgc ttataaaata aaactagatt ttatatcttt atgcgtgatc 300
atccaaatta gtccatcatc ttatttcttc aagtagctat atgtagttga ccaacttggt 360
ctttaatcct tctagatgtg aacatgcttc agtgagagtt gtcattcatt 409

<210> 31649
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31649

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atgtgagctg ctaatatatt actatgaaaa agaataata tcttatcggc cttgtttaca 120
ttttttttgt gtgccataaa aataattttt tttaaaaaaa gctttacttt ttcaataaat 180
aaaagaatgt ttattctctc agaataattc tcctcctata tgctcattcc tcaacttaata 240
attcctccct catccacacg tcataaattt acatggagtg gtaaatagta atcattttaa 300
accaccattt ntaattcttt caccctctga aaatgctgca ctcattgtat tctgtttcac 360

cttcattcac caagatacca atgcactgca gtacaccaat gcagcacaca attaataat 416

<210> 31650
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31650

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 agaaaaccat atctttcatc cgggtgtctc ccctctntga gcagaattgc aactgtggtc 300
 aaggattcag caagaggtht ggaccacata aaacagactc ggaacggcat agcgggccta 360
 ccacggaggt acct 374

<210> 31651
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31651

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 aaaatataaa agaagccata atagatgata actggatcat tgccatgcaa gaagaactga 180
 accaatttga aagaaacaat gtatggaaat tagtagaaaa acctgaaaat tctctatca 240
 taggaacaaa atgggttttt agaaataagt tagatgaaca tgggtataatt attagaaata 300
 aagccaggtt agtagcaaaa ggggtataata tagaagaagg aatagactat gaagaaacat 360
 atgctc 366

<210> 31652
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31652

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ctccagatca aaaaagtggg accgtaggct ctgcatcaaa ttgatggcac gacaaaacia 180
tttactaca tcaggaaaca agcatgattt caaacaatat gttaataaga taaccactga 240
cctgttttca ttgcagggtg ctgttgatga ttcangtccg tgctttcatt gaccatcggt 300
ttgcttgcac ctcttctttt cttcatcttt gaggcgctca gagaaccttc tactgtagag 360
tatggngtaa gaaaacaata tanatcatta gtaatgctta agaggagtaa tcagaat 417

<210> 31653
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31653

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tttttactcg gatgtctgat tgagtcccg aagatatcga gacgctcgaa attgaatctt 180
gaacttctga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcccg 240
taacatattg agacgctcga aattgaatgt tgaacctctg agctaattaa aacgacatta 300
actntttact cagatgtctg attgagtccc gtaacttacc gagacgctcg aaattgaacg 360
ttgaagctcc gagccaatac aaacgaccaa aactgtntac tcggatgtct gattg 415

<210> 31654
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31654

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gcccagcata ttgtagatgt tcggaaggcg ggaatcaaac cttcagttga tgataaacat 120
gttgtgagac gagaagcggt gaagcggtgt acatgggaag taatggacag tgacagaggg 180

gaagagatga agatatacgc catgcacctg aagacattgg ctgcatacgc tgctggtgac 240
 ggtggaatth ctcatagaaa cattactgaa tttgtgaata acttggtcca ttngtaatta 300
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 gttgtttca 369

<210> 31655
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31655

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 tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120
 accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
 aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240
 gaactaagac aagagtttcc ttgtagtggg tataactgaa gtcagagcca tatgaataac 300
 ttanaggggt ggcaaagaag tcattcttcac cagccattgt cttcatgtca tccaaaccaa 360
 ttggaatgga tcctgacagg ctgttattgc caagatccag cactata 407

<210> 31656
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 31656

agcttgtatt ctctgacta tggaaaacag gtcagtctgg tcttctatcg aacatcttcg 60
 ttgtggtgat tagtcggttg ctccattggt gttatgttcg ttttagttct tattatagtc 120
 ataaattctc agggtcgaga tatatgttac ctggcttcgt ggtgggcgcc aaattgttat 180
 tgtcaciaat ggatcgagta ctgctccttt tgccaaaggg ccttctacta tgttgaagga 240
 tctctagagt tgaagggtca tctgctagtt gttccttgtc gaagattcag gtgcatgagc 300
 atctgacaga gcagagggaa gaatacctgc aaaatgctgc aatgctcaag tgagggttcg 360
 acttagagtt attaataata tatataatga gtaggtgaga atgaatcact caccttactc 420

<210> 31657
 <211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31657

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agctntgggtt tttatgactt gctccaatgg ctcatcatgt cttctattga acctttcttc 60
atagacttga agagaaccca tcaattgggtc tacgggtcatt gagtctaaat ccttagactc 120
ttcaatagca caaaccatat aatcaaattt agcgattaag gagcgaagga tcttttccac 180
cacatgaaca tcttccatat tttctccata atgcttcatt tggttcacia tagccaacac 240
cttggttgcca aaatctgaga tagattcgga ttccttcata tgcaatgatt caaactctct 300
acatagaatg taacttcata ccttggttttc ccaacatgac aatattgaaa gcataaattt 360
tgtgaaagcc taatcctcca aacccttgtt tcattgacat tntactccat ctcat 415
  
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<210> 31658
 <211> 351
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31658

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agtacgacag tcaccgcttt aggagcggtg tacaccagca gcgcttcgaa gccatcaagg 120
gatggtcggtt tctccgggag cgacgcgtcc agtcaggga cgacgagtat actgattttc 180
aggaggaaat agggcgccgg cgggtgggcac cactggttac tcctatggcc aagtttgatc 240
cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg ngttanggggt cagtggatcc cgttcgatgc cgacgctatc a 351
  
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<210> 31659
 <211> 428
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31659

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cctaggtttg agaagtgaaa ttgagaatga ggtaaatttg aagcaaactc tcacctcaca 120
caagtccata acatcaatth aaacttgtec aaactggatt tacacctaaa atttcaccga 180
ttcaaaatth gactcctcaa caccctaaatt taccctagaa atggttcttt attcactttg 240
gtcatttggt tttctctcta gctcagccta acctttctca taaatcctaa atgacatttc 300
aaactaggat taactcattt taaccttcat ttactacaga atccagattt aaccttctaa 360
ctctcaaagc ctactctnt ntccactcac aacaccacat tctctctttc taaccctagg 420
ttaactct 428

<210> 31660
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31660

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ggctgctgat gtaatttgat tgatatccaa ttttaaccctc aattagttgt tcctaattgg 120
cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatgggtct 180
tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240
atggtctcta ctcttgagca cgatagcagc tacctaccta agtatgatcc acatattgggt 300
aattgtaaaa ttcanaatat tatactaatc ctctcatttt atttgtcact cttgaaatat 360
ttctttatca taaactatgt gccagttaga atattataca aatatta 407

<210> 31661
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31661

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gtaagtatac ataaattcta gagcttcgtt gttaattccg tgcgtctcga tatattatgt 120
gcctgaatcg gacctctgag ctaaaagtta tgaccatttg aatttctcga gagccttccg 180

ttgtcaattt catgcgtctc gatataattat atgcctgaat cggacctccg agttaaaggt 240
 tatgaccatt tgaatntctt gagagcttcc gttgggtcaat ttcgagcgtc tcgatataatt 300
 atgtgcctga atcgaacctc cgagtgaacta tgtatgacca ttngaattgc tcaacagctt 360
 ccattgggtca atctggagcg tctcgatata ttatgcgcct gaatcggacc tccgagtaaa 420
 acgtatgac 429

<210> 31662
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 31662

agctttctcat atgtgtttgc acctaaatcg gtcacccgag ttagaagtta tgaccatctg 60
 attttctccc gccgtttctt ttctcaattc cgagcgtctc gatataattat gcacctgaat 120
 ctgacctccg agagacaagt tatgactcat gcgaattgct catgagcttc cattgttcaa 180
 tctcgagcgt gtcgatatat tatgcgctg aatcggacct ccgacttaag agatatgacc 240
 ttctcataac tcgatagctc ccgcggttca atttctaacy tctcgacata ttttgcgctc 300
 gaatcggaca 310

<210> 31663
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31663

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 tctgctttat aggagtcgat ctccaagaag ttgaccatt tcctttaata tactaccagc 120
 ttctattaca ttctctcctt gttccaaaaa cagtcaaaat tactgacaca tgttaagagg 180
 cagacaaaac ttggtttata atgcgtgtca ctcaatgctg ggatctttct tgattacaat 240
 acttcacgtt ctgaataata tcttatatca tttctgaata tatgcgagat tntattcttt 300
 gaaatcaca 309

<210> 31664

<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31664

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tatgtatgta tgtaaatatg tagcatgaaa tgccttgcaa aatgttgaat aaaatgcctt 120
gcaaaatatg aatatatata gcaggaaaat gccttcata atatgaatat atatagcatg 180
aagtgcctta caaaatgctt ggatgggtag cgtaaaagtg tttttcaaaa tatgtgtatt 240
tgtgagtacg tagcaaaaaga agccttccaa aaaatgtgta tatatatagg atgtagcatg 300
aaaagggttg tcaanaata tgcacatgga tatgtgtcgt acaatgcttc tcacaaaatt 360
attatgtgtg caaatgcgta tgtgtcat 388

<210> 31665
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31665

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ggctgctgat gtaatttgat tgatatccaa ttttaaccctc aattagttgt tctaattgg 120
cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatggtct 180
tgatacatgg atggtttata tttagtgga agactttaag atgcactatt tgataatgca 240
atgggtctcta ctcttgagca cgatagcagc tacctaccta agtatgatcc acatattgg 300
aattgtaaaa ttcanaatat tatactaate ctctcatttt atttgtcact tttgaaatat 360
ttctttatca taaactatnt gccatntaga atattatnaa aatattaatc actttctctt 420
aataa 425

<210> 31666
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31666

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 agtcaaagag aagttcaagt ccatagccat caaagtctga agagagtatg atgaactaag 120
 ggacgtcaat atggccaccg atgaagcctt ggaatgagaa accaagaagg cccgaaagga 180
 agaacacgac caaaacaagt tttgaagggc tttatagggc agcaatagtg agctcaggct 240
 ccgaagaggt gaaaggaatc atcacgggtc anaggcatga tcttgaagaa cgagctanag 300
 gcttgcctta ngtcgaanag aaatttgtcc caacagttaa gcaagactga aggggaatatg 360
 tgggccatca tcgatgagtg caaagagaag ctaaactta 399

<210> 31667
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31667

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 gatttcgctt gatgggttaa ctttgatgct tgctttggac tcttgggaaga agattgagaa 120
 agctgaagta ggtcaaagat ttctagaagt ttctgttttg gccgatgtac ttccggcatg 180
 tttagctata ttctaagttt tcaaacttta ttttcatttc ctttgatggt gatgtattgt 240
 ctttttcaag ctggaagtgt tttgcgggtg atattagaga tacaaattag tttagttggt 300
 agttattagt ttaaattggt acaatctagt ttagcttatt acaatttaat ttaattagtt 360
 acaaattagt ttagttaatt acaagtttag ctatataaga ctcaatgtat tcatgtaaaa 420
 at 422

<210> 31668
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31668

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 gcacaacaag ttttccacat ccacaaatcg cgcataaatc caccatcccc tgttgccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgtttatctc aaccccggtg 180

cccatcaat ccttccaagc ttccccaaca tccaggtaat tcatcatcca aatcatcaca 240
aactaaaaaa tcaagcaaaa tatggcaaat gcagaaaact ctgccccata ctcaaaccaa 300
aatcacagct gtttctcact tanagaccgc agtaacatit ctttcgttcc aattgggttaa 360
cacgatggat tgactcgaac aatttactgg aagtctctag tacataagtc ta 412

<210> 31669
<211> 366
<212> DNA
<213> Glycine max

<400> 31669

ttgcttggtc tttatgcccc acaggggaatc aacatcgcat gaagtgtcaa ccataggggg 60
tgaaaagagg tggaagccga tgccaacaca gtggagttaa agaaaaagga ggcggcatca 120
taggagcact catgggtcacc acaccgacac tcagcaagga tgtagcgacg gtgaacgaag 180
gagacacaat aggactagcc aaagcagctg gcgcatcaac ttcagtagta ggagtggcct 240
cctgaacaag cacaacaaga ggaggtggag gagtaggagt aacaacaaca acaacagcga 300
aagcaaaagc ctcaacggat cttgcaaact tgaaggggtga cctgaatcaa gcgtcaaccc 360
tacagc 366

<210> 31670
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31670

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aacagtccca ctctcccaat tttacacaat catattcata catcattggg gcatttcacc 120
gagcacttgg tgagcacatg tttggacata aattgcaaga ggatgggggac aatgtggcat 180
gccccattgc ttcagaatac agcataggcc taaggccttc tcattcaaait cctcaattca 240
agaaaacaag cataaaaaaa aaccaaaact gcccacaaaa tacaagcaca ttctctcaat 300
ttggagcacc aaaagatgaa gaanatatac caatgggaag ctganaacat caaggattga 360
atacttactt gttggagtgg acaataacac caaaaatg 398

<210> 31671
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 31671

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 aaccgcgaat ggggttaggc aaagacaacg gcggcataac tagcctgata aatgccaaag 120
 gaaattgtgg gaagtatggg ttaggctata agcccactca ggcagatatac aagagaagca 180
 tcgcgggaag gaagagcggg agtcaaagct cgcggttgag acaagaaggc gaaggaagcc 240
 caccctgccca cataagtagg agctttataa gcgcaggctc gggggacgaa tgtcaagtgg 300
 tcgcgatata cgaagatgat gttccgagta catt 334

<210> 31672
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31672

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 atatgttgaa agtatttggt atataatggt atattaaagg atgaaattaa aataaagaga 120
 aaaataaata gatatttgta cttgaaaatg atataatata atctttttaa aaattttatt 180
 tattgaatat attttttctc ttttatatta ttattattag ttaagggtta atcatttgga 240
 taatatgtga gttgaattct tgacataaat cattcttaat cagattntat ttattttttt 300
 ctaatgaatc ggagaattaa cacaaaaata aataaataat aataataata ataataataa 360
 taataataat aataataata atattattat tattattatt attattatta ttattattat 420
 tat 423

<210> 31673
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31673

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tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120
tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180
aactaaatgt gtactcagt caatagtaaa gaggatacaa agtataatgt aattgatgac 240
attgtcatac tgtagtcct tcaaagtgtat tattattggt gatcacgcaa acttggttcat 300
caagtgggtc cacaacacct cgactatcat catggagaat acgccttgag tagtaaacad 360
tgtgttaata ctttgtttgc aataaaataa tattgaatta gcattaataa aagagagctn 420
gaatacc 427

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<210>      31674
<211>      427
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31674

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gctaacccttg gtcaaccgcg ataccaaata gtattaaaaa gtgaaaaata taagaagagt 180
attacaaact aaatcaaact aatgaaatct ataactagga agacaacatc tatcttgaaa 240
taagaaaaga aggagtaaga tcccaccaac taaaaccan agtaataagc ccgtgctttg 300
ctaatttggt tgcacaagt tagccttcac aatacacatg ggagacaaca agattcatgc 360
tatgagcaag atgaacacaa ttcttcta atgtacttaa ctaccaagga ataacatcat 420
catgatc 427

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<210>      31675
<211>      427
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31675

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agcnatacgt tacactgaat caattcatgc aaaggtgcat gttcaactat aggagcacia 60
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gaccactaa caactttaga tccaacaccg agaaaaattc caaagagtag tgtaaggtaa 180
 ttttcactag gagggaaaagt gctaagaacg aaaagagaat tgaggaggat gtgcatgatg 240
 atgaacgaga aaagaaagaa gagggagaaa aagatcagag caatgaaagt ggtgatgagg 300
 tctcaaccac taacaccaag accaagagcc agttagctta tgaggctaga agagaaatac 360
 tctcaacctc atcataagag acatcgtacc ctctcgtgcc atcaaagaag gataacgaac 420
 actatatt 427

<210> 31676
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 31676

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 tgaacaaagc ataataaagg caaggcagag gtattatgtg gctctgatac caaatgtaaa 120
 attatacata tattgatcta aacatgcaaa tcaattttaa tgacatatatt atatcaaaca 180
 gcggagatta aatatattac gagcgtacct ccagccattg caaattgaac gggaagcggc 240
 gaacacacga acctgaaaga cagttctggt cttccagacc cttactcatt ctaaatagat 300
 ggtgtatttt tttctgaat agaggagtga gtttggtgat acaaaaactga gagcaccaca 360
 tcctatecta tttatagtgt ctgatcatca cagagctttc aacttcttgg tatgata 417

<210> 31677
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 31677

agcttgaatc atttctgtat gcattggata actgggagac ccattctggc ttgaatcaca 60
 cattcgcacc tgtctcaagg gtttgtggtt tgtgctctc tgctgaccac catacagacc 120
 tttgaccttc catgcagcaa cctgtagcaa tcgaacagcc tgaagcttat gctgcaaata 180
 tttacaatag acctgctcaa cctcagcaac aaaatcaacc acagcacaac aattatgacc 240
 ttcccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggtagattc 300
 ctgagcaaca acagcagcca gctctttcct tacataatgc tggtggccca agcagaccat 360

acattcctac atcaatgcaa caacagcaac tactcctaata actagcaaca act 413

<210> 31678
 <211> 320
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31678

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 anattcaaga atgtcaaact tctttntggc tgtttccata tctctgttcc acatttatga 120
 gttttgtcta atattcaaga atctcanaca ccttgcttcc attgcaacct tanaacatnt 180
 acttanagac ataagctgag ccaaatttct tactacaaa tactatgacc aacttcatga 240
 tatgccacta aactntngat ctacccatct gtcacagtg ttcctttcat tccatccata 300
 atcctatcag tagaatcatc 320

<210> 31679
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31679

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 tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120
 tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180
 aactaaattt gtcactcagt caatagtaaa gaggatacaa agtataattt aattgatgac 240
 attgtcatat tgtagtctt tcaaattgat tattattgtt gatcacgcaa acttgttcat 300
 caagtgggtc cccaacacct cgactatcat catggagaat acgccttgag tagtaaacad 360
 tgtgttaata ctntgtttgc aataaaataa tattgaatta gcattaataa aagagagctt 420
 gaatacc 427

<210> 31680
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 31680

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 tgttttaaga gtagtgctcc actggtaaaa ctaactttcc aaatgtttgc cttcgagga 120
 aatggccccg aggaagcttg cctcaaagag gtccaggaag gacaaggcag ccgaaggagc 180
 tagttccgct cgggagtatg atagtcaccg ctttaggagt gctgtacacc agcagcgctt 240
 cgaggccatc aagggatggg cgtttctccg ggagcgacgc gtccagctca gggacgacga 300
 gtatactgat ttccaggagg aaatatggcg ccggcggtgg gcatcactgg ttactcccat 360
 ggccaagtgt gat 373

<210> 31681

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31681

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 ctctccaacg ctgcttacct tggtaacccc gcataccaaa tagtattata tagtgaataa 120
 tataagatga gtatttcaaa ctaaatacaaa tcaatgaaat ctattactat gaatacaaca 180
 tctatctttg aatacgaaat aaacgagtaa gatcccaccc actaataccc taagtaataa 240
 gcccgtgctt tgcttatattg gttgcacaag tgtagccttc accattcaca tgggagacaa 300
 ccagattcat gctctgatca agatgaacac tattnctctt atgt 344

<210> 31682

<211> 104

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31682

accctgtata acgggacagc acacgttctc aactgngttc cctattccca catgcaccaa 60
 ccctccaagc acatccaagc aaagccccaa ttttagggca tcaa 104

<210> 31683

<211> 357

<212> DNA

<400> 31688
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 gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
 agtgattctt tccttccttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccagaatta tctcgtggcc ataactccaa ttntaagcac tcaaattaag 300
 tgattcttga gcctaaattg aattttcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatnnggag ccctgtagct tcagttattg ccatttctat atttctgtcc agccaccact 420
 t 421

<210> 31689
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31689
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 gaacagatca cgaggctatg ttaaacaatga aaactgaatt catggctctg tgggatggat 120
 ttacaacaga tcgtaagttt aacagttatc atattttatt ttgttgcata aatattgaaa 180
 ataagttgca aataagataa tgacaatttt gatagagatt tagtttgtaa cataatgttc 240
 tcaatttatt tatatttgag tagatttggt gattgggggtg acttattgtg tgtgtagaga 300
 atgctcaagt tatggttctt gcagcaacta atcgtccttc agaacttgat gaagcaatac 360
 ttcggcgtct tcctcaagcc tttgaaattg gaa 393

<210> 31690
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31690
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 taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgctg tgattcaata 120
 gatccttcca cccaagcata aagaccctgn gagtgttaact attccttatt caattggaga 180

attcacaagt aatatgacat gagtcccata tctgtcatat cacattcacg agacatggac 420
t 421

<210> 31693
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31693

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gtgggcctgg ttgctattta caccgccatt tttactaaat gcacccctt tctatttttt 120
tgtaattctt tttccgtaac gttacgaaac tttacgaatt ccgtaacgat acttattttc 180
cttctgcaag gttatgaatc cttacggatt atgtatttac tcttttttag ctttcgaaga 240
agttacggaa acccccgcat tgcgcaaaaa cacctctttt cgaattccgc cacattacgg 300
aatttcacgg atcgcgcaag cctgcttctt ttaattttct gagacgtctc aggacttcat 360
ttactgtgca acanaggatg ccaagtatct canagcggct aaccaaaggt tacatgtcat 420
caagt 425

<210> 31694
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31694

agcttattct atattactat tattggggta tatgtaataa catagcccaa agagtctgca 60
caagtaaaac taaacggtag ttaaccaatt tttcgacgaa tattaattat caaaatgaac 120
agtacttcat atctataata taataaaaaa aacaataaat aacattaata gtgtgtttca 180
gctttatata atttcctaac taaaaaagaa gcattaggat atctttgagc tttaaatttg 240
gtggcattag ttccgatggt taaatggcaa ttgtttaatt taaggggcgt gtctagttga 300
agagtcagtg tgtcaaataa tggatgattt gatgaatgac cagatgtact cgagtgcag 360
acaagatgtg aatgggccat atattgcttg agcagcaaca gcaagacann atagtctc 418

<210> 31695

<211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31695

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ggccctgatt gtgcttggtc atttgcaact catctcgta cgggcatcct ctagagtcac 60
ctgcntgcat gcangettgt atctattaat ttttngttgn nattgtgaat ttacgcatgc 120
aatcttaatt ctcaacacac tgtntggatg agtcttccaa ggattgtgtt gccttctcta 180
actctccttc cttttccagt gataaggtaa agctacaaaa ttgagtcctcc caatttttga 240
tataagttgt gtaagaccat ctntaattcg aacaatgtgg cttaaagggtg taaatgcaca 300
atccttccaa gcgagcaact cagaggtgta acgccatctt atgaattcgt atgagcatct 360
tcaatganaa tggaagactt gaacgacagt ggttggcttg ctctcattgt tctggaatag 420
atanggatct atatatgnca cactgatgaa ggatgaacaa actcattatg catccangta 480
aacttgat 488

```

<210> 31696
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31696

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aaaaatcttt ataagctatg gagaaaaaga gaaccaaata tgaaatatct taaagtgtgg 120
gggtgtctag taaaggtcaa tatccctatt aataagaaaa gaaaaattga aaaaaaatgt 180
taattgtatt ttgttgata ttttttacat aataactact atagattctt agttgttaat 240
tcagaagtga ctaaaattta taatgttact attatgtaat ctagagatat cactttcttt 300
gaaaatcttt ttccttanaa aagaaattgt taaatcttta tatggtttga aacaagcccc 360
anagcaatga cacacaagtt tgatcaagtt attctttcgt atgattntca nattaatgat 420
agtgat 426

```

<210> 31697
 <211> 413
 <212> DNA

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 aaggtcataa agctctgatg aaatattcaa ttcacttgaa cttgttgaaa caccattaat 300
 ttcaaagaac caaggttcag ttgctttcat gatcagaact tgctacacac cgtatagtta 360
 ttggtcattg ctcagcaagt gctgcactcc tgcccaatca tgcctcggtta ttct 414

<210> 31700
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31700

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 aacttttgaa cggttaatgt ggtaacgtgt ataactntgg aggatcaaatt tgaggggtctt 120
 ctctttttaa catgaatgtt tggatatatcc acattttccat cagtgtgatg tgtaagtcta 180
 accaaaagaa atttcccaac agtctaataa aagtgggaaac caccaccaat aattgcaaatt 240
 agttctctct tatcttttgc tttcttttcc atccccgtaa cacaatatat taatgaaaca 300
 aaaacaagaa aatccattgc agccattatt aagcacttga aaaagtcaca aacctgaacc 360
 ataattgacg canaatccan atcagtttct ccttctaata ttgtggaaag ttcacggtag 420
 actc 424

<210> 31701
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31701

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 aaaacaagaa atgaattgaa agcctcgggt tcgagcactt acccattgaa gaccaaagag 120
 cggatgaaga acgacgaana atcttcatgg aatcaccac gaaaatgtct tagaagcgtt 180
 atggaggcac ctcggcttgt attttcttca cagaaacacg ttttttcatc caaaacaatt 240
 canatgcata acataggggt caggaccctt ttactacacc tctntgccct tatttatagc 300

caaaacaggg aggagcttgc cgcccagctc gcccagggcgt gcctaggctt tcttaggaag 360
 tttcctgatg caccctcaaa attactaagt tca 393

<210> 31702
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31702

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 ggtcttcatg ttcgggtgat gccttaataa acttataaat ttttcagcta accattctgt 120
 agtcacctac cattttctag cagtcctaaa gcatatgtat tcattctatga aagacaacct 180
 accaatgagt cttctaattc aacttgctaa cccttaactt aaaacgacac cctagcatga 240
 acttcaccac atatctcttc aagtcatttt gcacaacttt caaatttttc ttattgacca 300
 ttgcaattgt tttcacaact tctttgatat cttttttggg gttaaaaatc agcccactct 360
 caatatgaat atccacatca tccgcaggta ttctaaacct agaatatctc tntgtctcat 420
 tctc 424

<210> 31703
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31703

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 gcaccaatgc tagatcctta ngcatttggt tccatgggtga aaggtttaga gaaattgagt 120
 atgcatagca ctggggctga gctaactgcc tcttgtaacg cgtgaaaggc tagcatggcc 180
 tacggtgacc acacaagggt ttccttggtc aagagatgaa tcacaggggt tgctatggta 240
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacaggggt 300
 ctaaaggagg tgggtcgcgg ccattgatga atggcaagta tcttgtcacg aacgggatga 360
 acaccgcgaa cggataccac atgac 385

<210> 31704

<211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31704

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 tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120
 tcttcttcat caatggattc ctttgcttct tggaaagatga atggcagcgg aatggagaaa 180
 ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gctcaccacc 240
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300
 aagagcacga nattntgtgc tctanatgag ctttgagatc tgaagtttaa tattcanatg 360
 atcaaagttg anaaanatgc acacacatga cctctatnta tagcctaagt gtcacac 417

<210> 31705
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 31705

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 gatggccttg attttctcag ggtccacttg gaccccatth ctaccaacta caaacctaa 120
 gaagactata ttatctacac aaaaggtaca cttctctata tttgcataga ggggtgtttt 180
 cctaaggact gaaagaactt gctaagatg tctaagtga tcagctaggc ttctactgta 240
 cactaaaata tcatcaaat aaacaactac aaatctacct atgacatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagtca 360
 ttcatacaaa ccaacttggt tcttgagagc gatttacact cat 403

<210> 31706
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31706

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ggttttcaaa ttgattgcaa ttaccattga actgaccaat aggatataca aattgatata 120
 tgggtccaaag ctttaaattt tattattatt taaatgcaca tcagacttat ttatggcaaa 180
 tctttaatcc taaagctggt gaggtttata cccatacaca gtgtaacatg ttcattgtttg 240
 aaacaatgag gatctgcctt ctatgtaatc ttaagaatgt tttgattgat ctttagaaat 300
 gtcattctatt gtagattgta gatgctgcct tttcttntt ctatctctct ttttttcgtg 360
 ttttgtactt ccactgcctt gtacccttgc tacttatntc aatgggtttt gtacgactct 420

<210> 31707
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 31707
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 gcgattgtat atttttaatc aaattataca actcttcgag aataaactct ccaggattac 120
 gtagataaga aggcgatgga agagctaaac ggtactcaat cattgaacca acttcttgga 180
 gggcttcaga tagcaaagct agcatctcat aatctccatc ttcataaatg actactactc 240
 tatgccaaacc ataagcatgt actacatctg caacacattt tgcatatgca gtaccatatg 300
 tggccattct taccgaaaaa tgccagcgag ttgtcatcaa tg 342

<210> 31708
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31708

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 ttcaaggaag ttttcgcaaa caagcttctc aacgatgttt tctcatgaaa gcttctcaag 120
 gaaactatct actctataaa tacaagcatg tgtaacacat gttgtaactt tcttgaatga 180
 aagtcttatg agatacaatt cacagttcca cttntttttc cttttattcc ttcattctgt 240
 gctcccgctt tgtatctttc ttttcctcca ttaaagtatc ctcttcaagc ttcttatcca 300
 aagcaattgt tggcggtgaa gtccttctt ccttggctga ttccctatgg atggtgcccc 360
 cctttccttt ctcttttctt c 381

<210> 31709
 <211> 570
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31709

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 caganccccc gggggcggtg tgganctgtg ttgatcctct tacanacata gacactctca 120
 atctctcaac tacgcagcat acacgaaggc gcgaccatat cacctttcca tttctcgcca 180
 cctgagcaac tcacatctat catgtgctgt acagcaattg aactgcccac ggatttatta 240
 tggggcaggg cacacttcgg ccatcgctcc tgatcagggc cgacagagcg gggacgactt 300
 gactttcatg tgacgtcacc gccaacctat ccatccacat agcggcattt tgatctgccc 360
 ccccatccc cccctcatgc ttattttagt gatacacttg tgcaaaagca ccactagcct 420
 tcgcctatcg gccatcgact ggtcaactcc ctcatcgaac ttccggagat cactaccacg 480
 ccttgcgccg cggatgtcag agtgaactca actcactatg aacaccggaa agcaacaagg 540
 gtgttctgca caaccaaagc ctcaggcccc 570

<210> 31710
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 31710

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 ccactcgcca atcatggagg ctcatgtggt aatgcaatgg aagagtggga gccagaggct 120
 gaagtagatg ggagacgtgt taacctctag aaggttcatt ttggaagcac tgtgcgaagc 180
 tggatatgatt cgccatgatg gtgacaaggg agattcctgt ttaatgcac tggaggcatc 240
 acatgatgtg gagacgtgct caatggacga atagttgcta caggggatga tggataacgg 300
 ccaaattgaa gtctgcagtg cgaaaaaacg gagatggata tgtgtatgca gtcagatgat 360
 aaaaacccaa gtaagcccaa gtc 383

<210> 31711

<211> 389
 <212> DNA
 <213> Glycine max

<400> 31711

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agcttcaaac cacaacaaca caaatcttg gtatccaaaa cccctcaatt taatggattt 60
tcaaggtttg agaagtgaaa ttgagaatgg ggtaaatttg gagtaaaacc tcacctcaca 120
caagtctata acatcaattt aaacttgctc aactggattt acacctaata tttcaccgaa 180
tcaaaatttg actcctcaac acccaatttt accctagaaa tggctctttg ttcactttgg 240
ccatttgttt ttctctcttg cacagcccaa actttctcat aagtcctaaa tgacatttca 300
aactaggatt aactcccttt aacctccaaa taccactaaa tccagatctg gccttccaac 360
tctcatagtc tcaactctgtt tgcactcac 389
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<210> 31712
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 31712

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gtgagccaaa atcctgactc accatagacc ttgactccag gtgagaatgt caatccttac 60
cctcggaagc aaaaaagaat agaagggaaa ttccaatct aaaaataaaa aatagagaag 120
gaaaattccc aatgaaagag aaaaaagaaa agacaggaaa ttccaatca aagaatggga 180
gaaagcacia agacaagaaa gaacattccc aaccaaagaa tgggaaaagt aactaacaca 240
acacaacagc tctcgggtcaa agaaactaga agaatgtgc agaaagggtct tttgaccaga 300
caatatctga acaatacaga attgtcacca aatgaaca 338
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<210> 31713
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 31713

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ctgctaagtg caacattcct gggctaagcg caaggaagaa tccataagaa gatgagttgt 120
acaagttcgc taagtgcacc gcttcatctt actaagcgca ccacttcagt tcatctgcta 180
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